

DAIKIN

R410A

TECHNICAL MANUAL

**Split Unit Air Conditioner
Ceiling Mounted C & E Series**

FLRN-E, FHRN-C, FLQN-E, FHQN-C series

— Cooling only & Heatpump [50Hz] —



TM-5CE-C/E-ST-A1

Table of Contents

Nomenclature.....	1
Indoor	1
Outdoor.....	1
Product Line-Up.....	2
Application Information	5
Operating Range	5
Refrigerant Circuit Diagrams	6
Installation Guideline	9
Sound Data.....	14
Sound Pressure Level	14
NC Curve.....	15
Engineering & Physical Data.....	19
Performance Data.....	24
Calculation Steps.....	24
Performance Tables.....	26
Outlines & Dimensions	52
Wiring Diagrams	56
Service & Maintenance	73
Troubleshooting	75

Nomenclature

Indoor

FLRN 35 E X V1

Power Supply

V1: 1 phase 50 Hz 220-240V

Production

X: OYLM

Product Series

C: C Series

E: E Series

Capacity

35: 3500 watt

Model

FLRN: Ceiling Convertible (Cooling Only)

FHRN: Ceiling Exposed (Cooling Only)

FLQN: Ceiling Convertible (Heatpump)

FHQN: Ceiling Exposed (Heatpump)

Outdoor

RN 35 C X V1

Power Supply

V1: 1 phase 50 Hz 220-240V

Y1: 3phase 50 Hz 380-415V

Production

X: OYLM

Product Series

C: C Series

D: D Series

Capacity

35: 3500 watt

Model

RN: Single Split Condensing Unit (Cooling Only, < 1-2.5 HP)

RYN: Single Split Condensing Unit (Heatpump, < 1-2.5 HP)

RR: Single Split Condensing Unit (Cooling Only, > 2.5 HP)

RQ: Single Split Condensing Unit (Heatpump, > 2.5 HP)

Product Line-Up

Indoor Unit
FL(Y)/FH(Y)

Nomenclature		Classification								
		Handset		PCB		Fin	Refrigerant Control		Air Purification	
		BRC52A62	BRC52A61	L208A EC	L208A AP	Hydrophilic (Blue)	Cap tube	W/out Cap tube	Washable Saranet Filter	Others
COOLING	FLRN35EXV1	X		X		X		X	X	X
	FLRN50EXV1	X		X		X		X	X	X
	FLRN60EXV1	X		X		X		X	X	X
	FLRN71EXV1	X		X		X		X	X	X
	FLRN90EXV1	X		X		X		X	X	X
	FLRN100EXV1	X		X		X		X	X	X
	FLRN125EXV1	X		X		X		X	X	X
	FHRN140CXV1	X		X		X		X	X	
HEATPUMP	FLQN35EXV1		X		X	X		X	X	X
	FLQN50EXV1		X		X	X		X	X	X
	FLQN60EXV1		X		X	X		X	X	X
	FLQN71EXV1		X		X	X		X	X	X
	FLQN90EXV1		X		X	X		X	X	X
	FLQN100EXV1		X		X	X		X	X	X
	FLQN125EXV1		X		X	X		X	X	X
	FHQN140CXV1		X		X	X	X		X	

Outdoor Unit
R(Y)

Nomenclature		Classification										
		Refrigerant Control		Fin			Safety Devices				Compressor	
		Cap Tube	TXV	Hydrophilic (Blue)	Hydrophilic (Gold)	Bare Aluminium	Contact	High Pressure Switch	Low Pressure Switch	Phase Sequencer	Scroll	Rotary
COOLING		Others										
		Drain Elbow										
	RN35CXV1	X				X						X
	RN35CGXV1	X			X							X
	RN50CXV1	X				X						X
	RN50CGXV1	X			X							X
	RN50CXY1	X				X	X			X		X
	RN50CGXY1	X			X		X			X		X
	RN60CXV1	X				X						X
	RN60CGXV1	X			X							X
	RN60CXY1	X				X	X			X		X
	RN60CGXY1	X			X		X			X		X
	RR71CXV1	X				X						X
	RR71CGXV1	X			X							X
	RR71CXY1	X				X	X			X		X
	RR71CGXY1	X			X		X			X		X
	RR90DXV1	X				X		X	X		X	
	RR90DGXV1	X			X			X	X		X	
	RR90DXY1	X				X	X	X	X	X	X	
	RR90DGXY1	X			X		X	X	X	X	X	
	RR100DXV1	X				X		X	X		X	
	RR100DGXV1	X			X			X	X		X	
	RR100DXY1	X				X	X	X	X	X	X	
	RR100DGXY1	X			X		X	X	X	X	X	
	RR125DXY1	X				X	X	X	X	X	X	
	RR125DGXY1	X			X		X	X	X	X	X	
	RR140DXY1	X				X	X	X	X	X	X	
	RR140DGXY1	X			X		X	X	X	X	X	

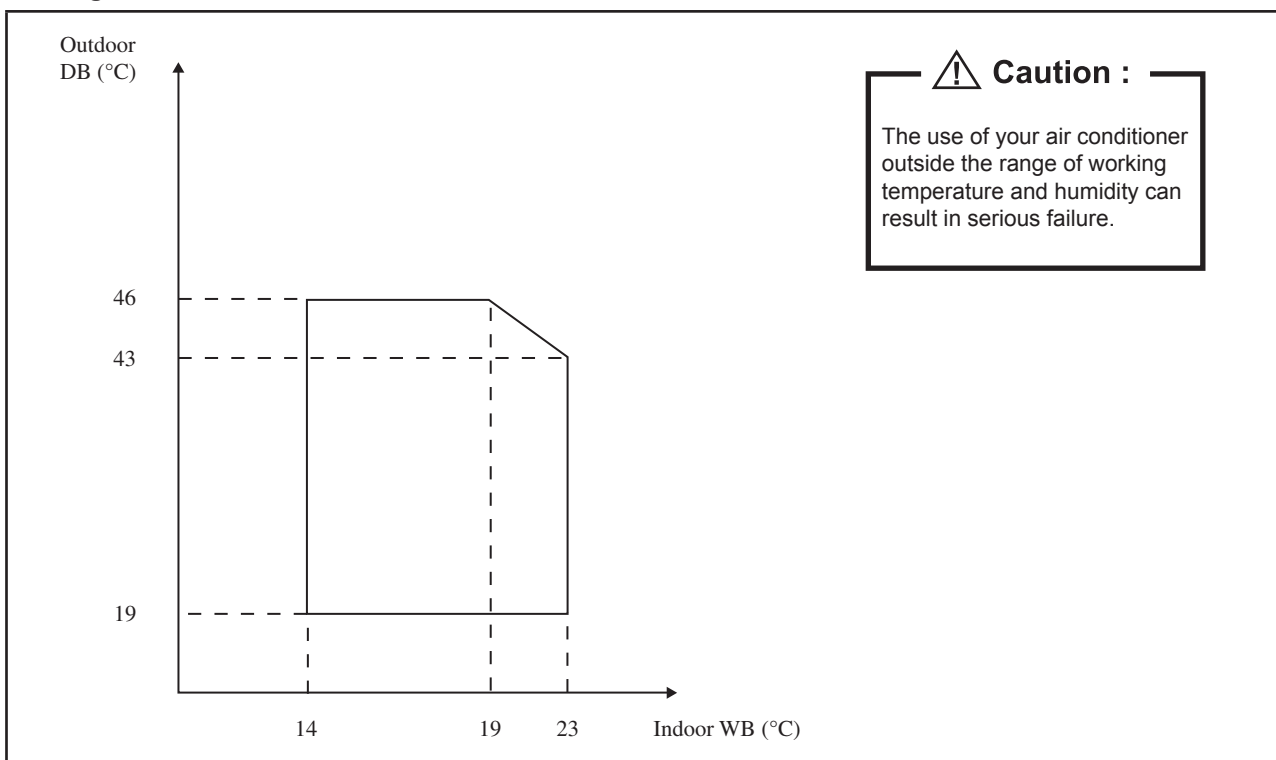
Nomenclature		Classification											
		Refrigerant Control		Fin			Safety Devices				Compressor		Others
Cap Tube	TXV	Hydrophilic (Blue)	Hydrophilic (Gold)	Bare Aluminium	Contact	High Pressure Switch	Low Pressure Switch	Phase Sequencer	Scroll	Rotary	Drain Elbow		
HEATPUMP	RYN35CXV1	X				X					X	X	
	RYN35CGXV1	X			X						X	X	
	RYN50CXV1	X				X					X	X	
	RYN50CGXV1	X			X						X	X	
	RYN50CXY1	X				X			X		X	X	
	RYN50CGXY1	X			X				X		X	X	
	RYN60CXV1	X				X					X	X	
	RYN60CGXV1	X			X						X	X	
	RYN60CXY1	X				X			X		X	X	
	RYN60CGXY1	X			X				X		X	X	
	RQ71CXV1	X				X					X	X	
	RQ71CGXV1	X			X						X	X	
	RQ71CXY1	X				X			X		X	X	
	RQ71CGXY1	X			X				X		X	X	
	RQ90DXV1	X				X		X	X	X		X	
	RQ90DGXV1	X			X			X	X		X	X	
	RQ90DXY1	X				X	X	X	X	X		X	
	RQ90DGXY1	X			X		X	X	X	X		X	
	RQ100DXV1	X				X		X	X		X	X	
	RQ100DGXV1	X			X			X	X		X	X	
	RQ100DXY1	X				X	X	X	X	X		X	
	RQ100DGXY1	X			X		X	X	X	X		X	
	RQ125DXY1	X				X	X	X	X	X		X	
	RQ125DGXY1	X			X		X	X	X	X		X	
	RQ140DXY1	X				X	X	X	X	X		X	
	RQ140DGXY1	X			X		X	X	X	X		X	

Application Information

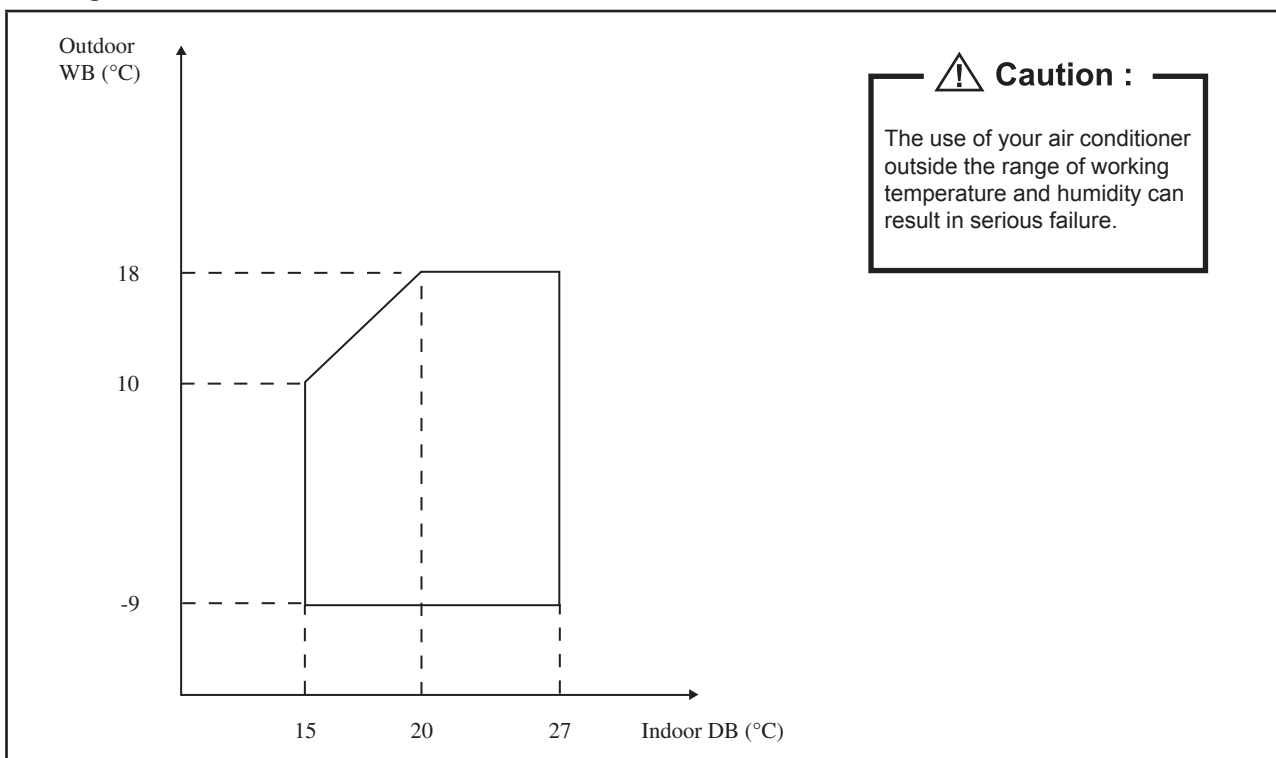
Operating Range

Ensure the operating temperature is in allowance range.

Cooling

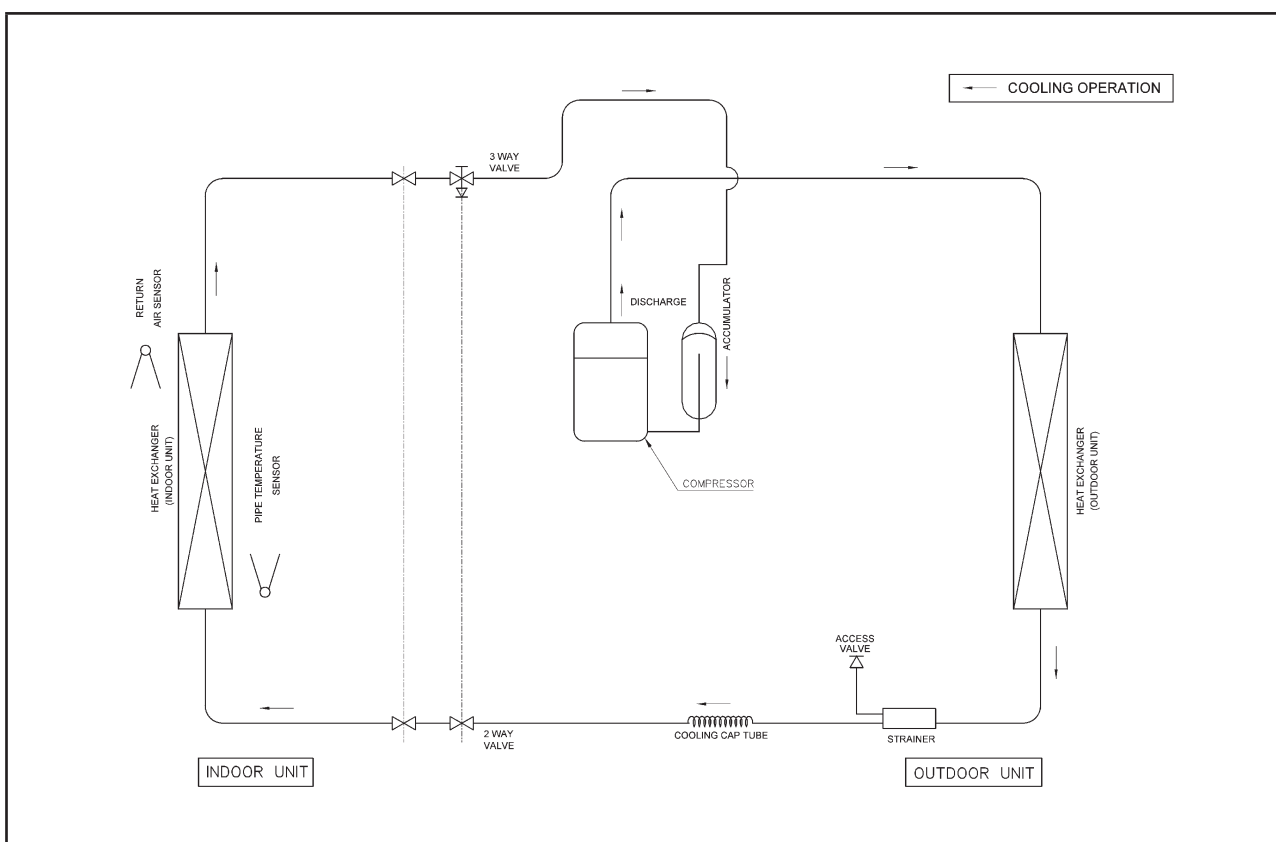


Heating

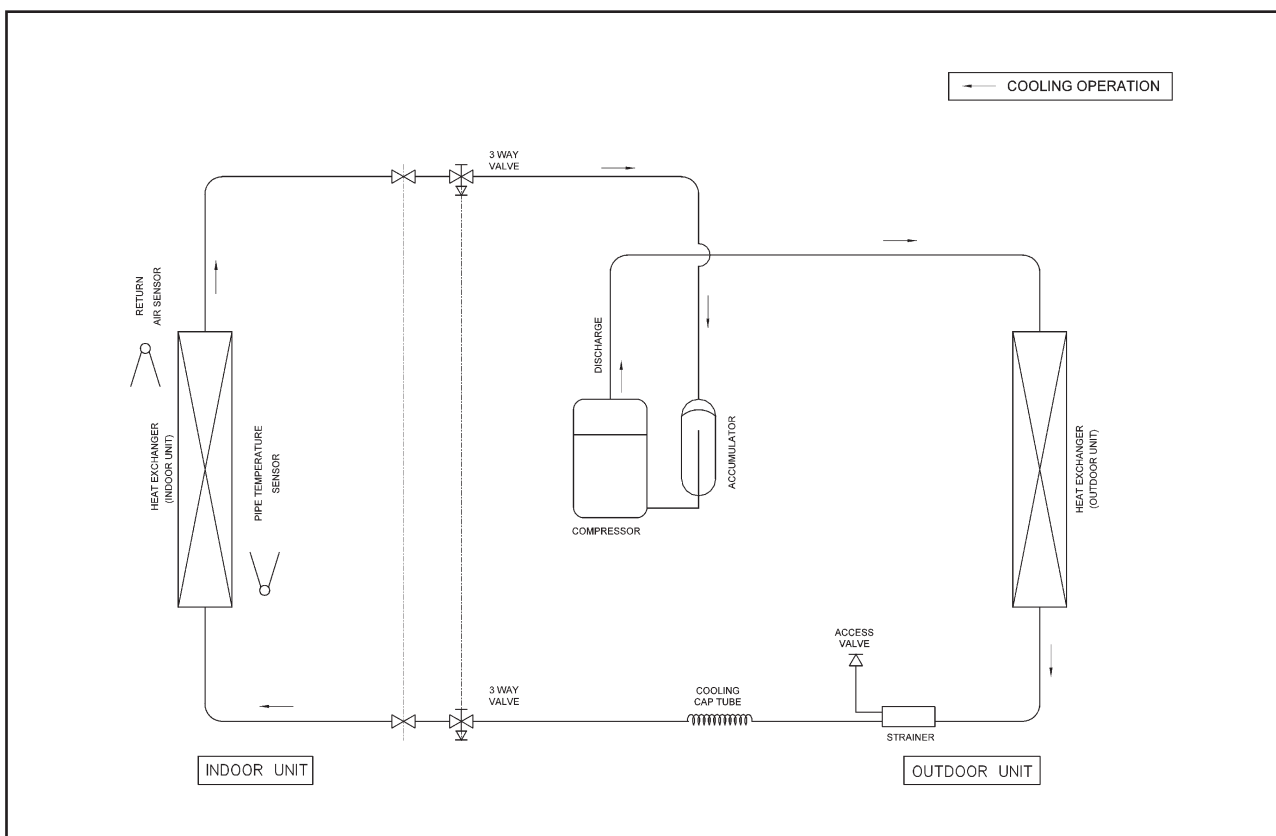


Refrigerant Circuit Diagrams

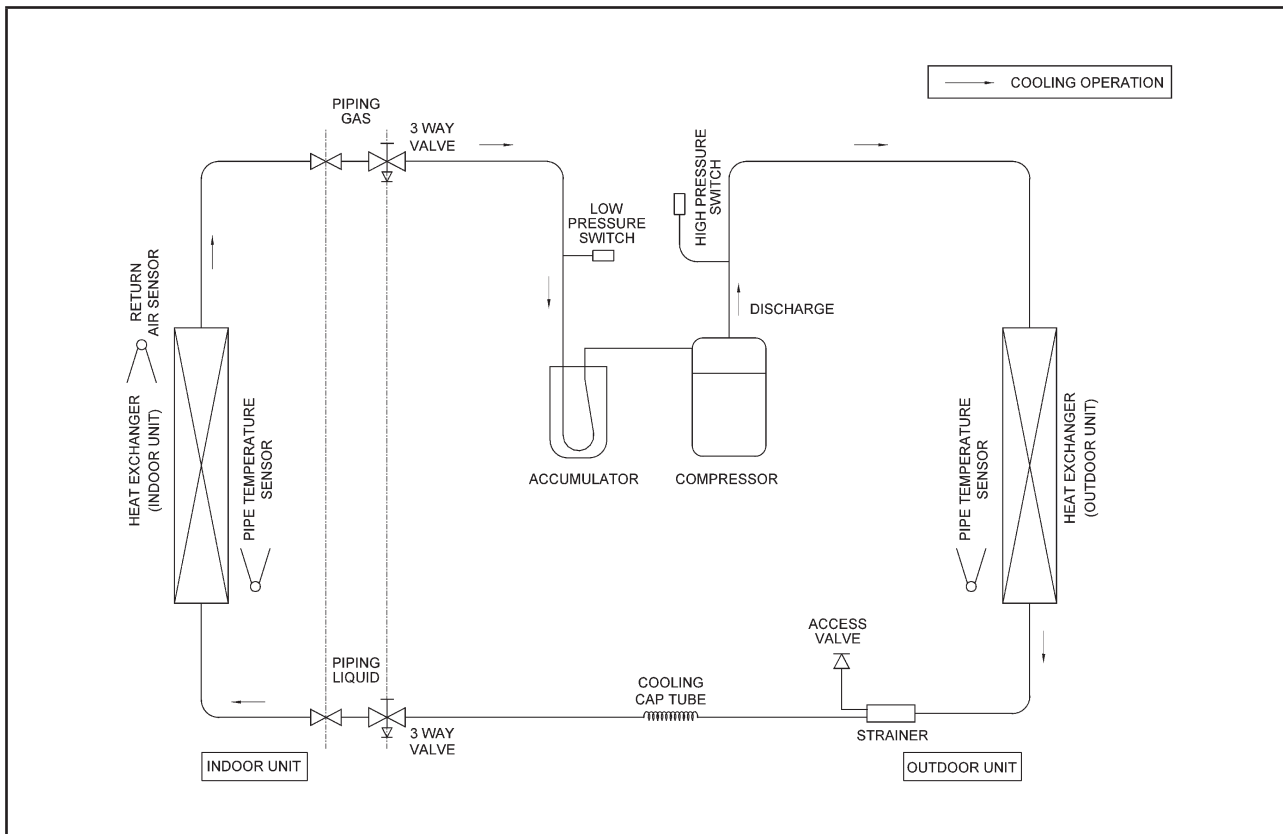
Model: FLRN35EXV1-RN35CXV1 / FLRN50EXV1-RN50CXV1 / FLRN50EXV1-RN50CXY1 / FLRN60EXV1-RN60CXV1 / FLRN60EXV1-RN60CXY1



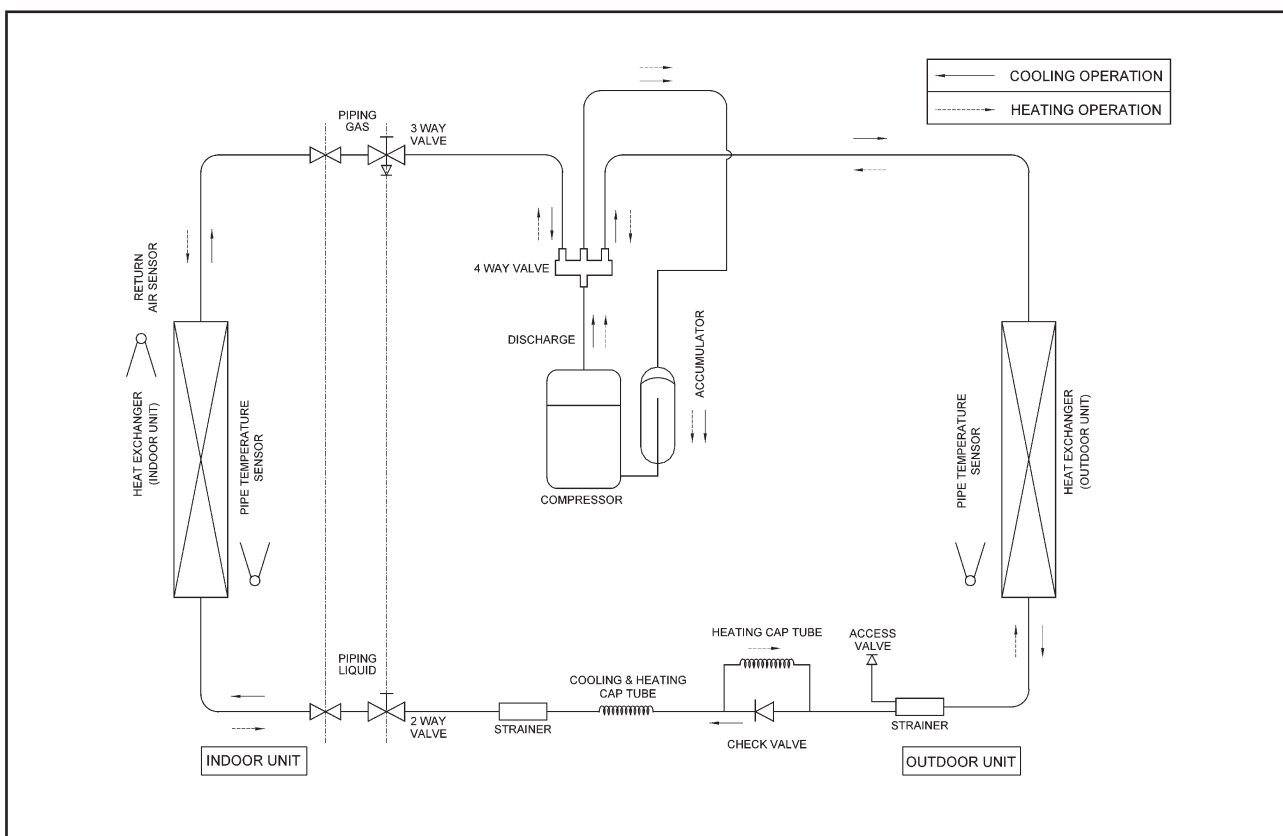
Model: FLRN71EXV1-RR71CXV1 / FLRN71EXV1-RR71CXY1

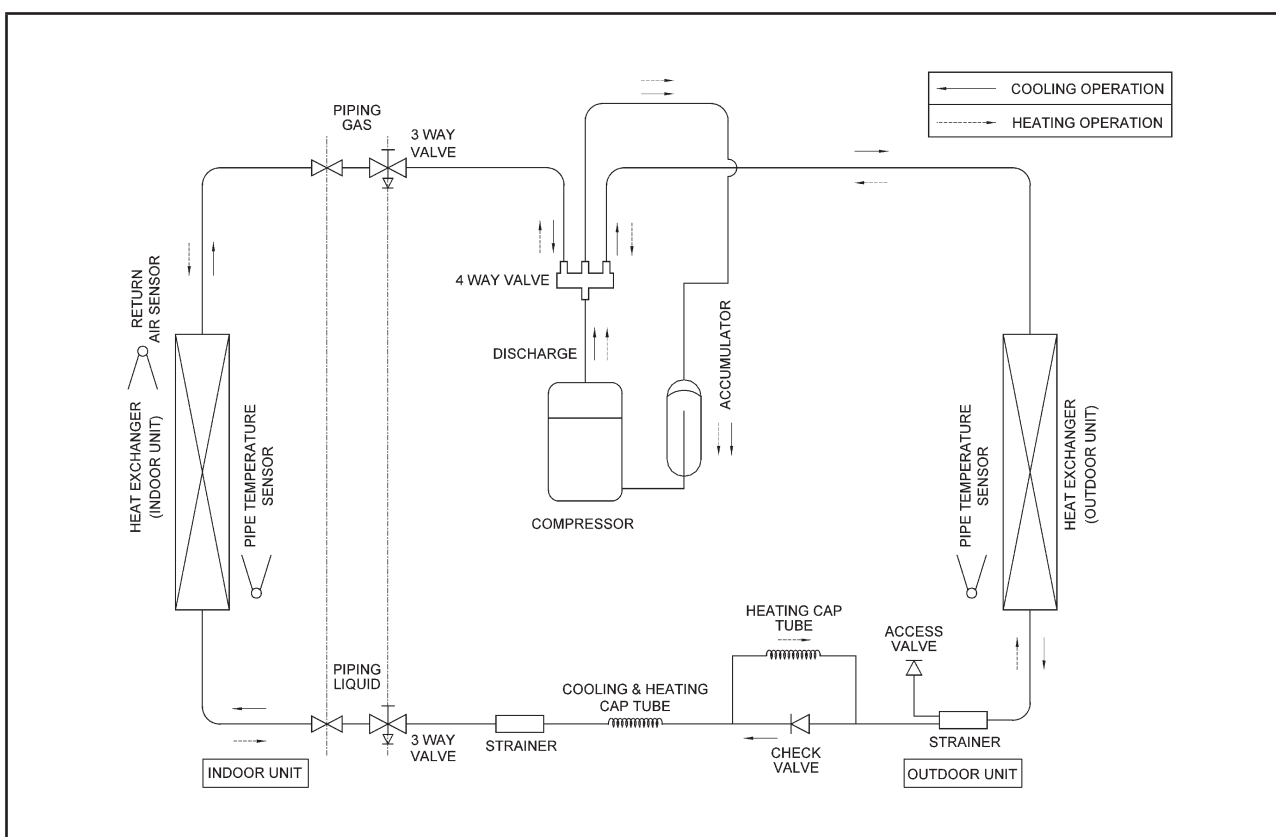
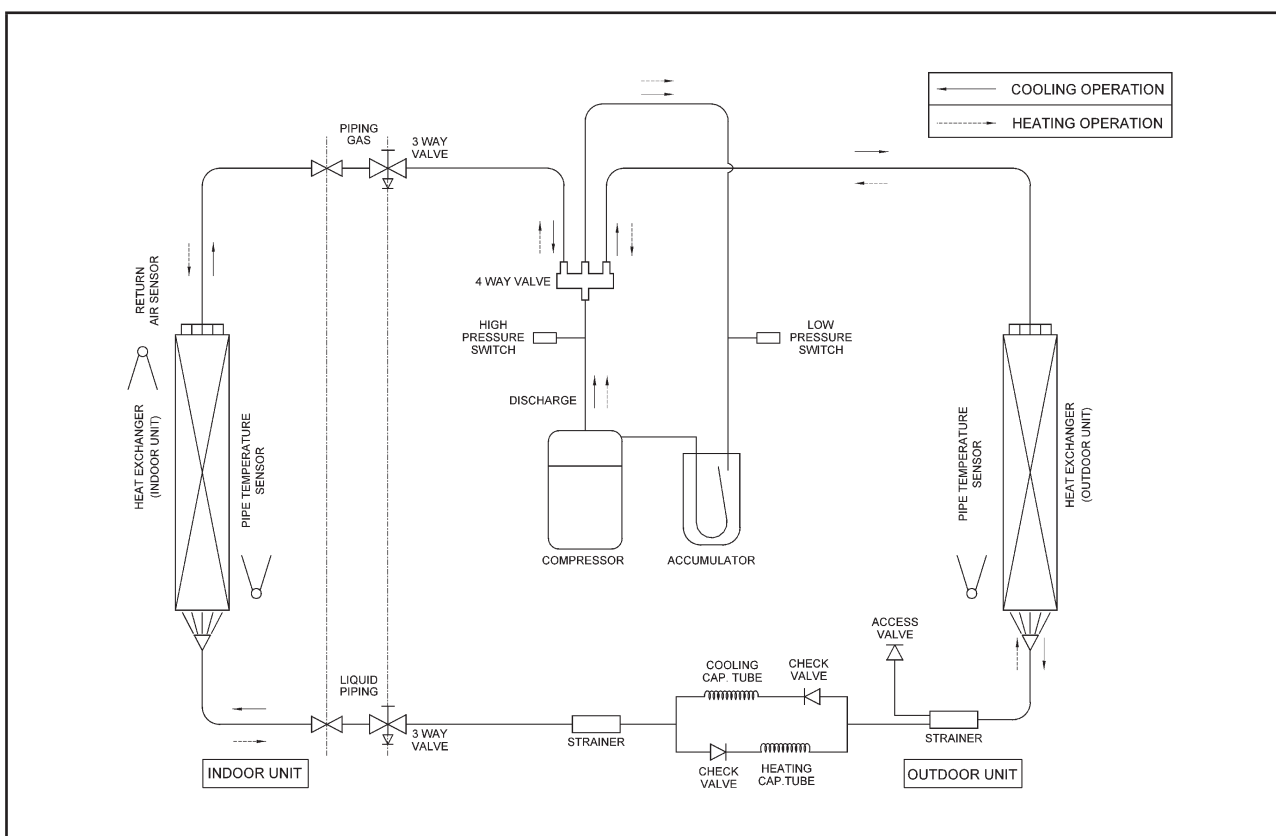


**Model: FLRN90EXV1-RR90DXV1 / FLRN90EXV1-RR90DXY1 / FLRN100EXV1-RR100DXV1 /
FLRN100EXV1-RR100DXY1 / FLRN125EXV1-RR125DXY1 / FHRN140CXV1-RR140DXY1**



**Model: FLQN35EXV1-RYN35CXV1 / FLQN50EXV1-RYN50CXV1 / FLQN50EXV1-RYN50CXY1 /
FLQN60EXV1-RYN60CXV1 / FLQN60EXV1-RYN60CXY1**



Model: FLQN71EXV1-RQ71CXV1 / FLQN71EXV1-RQ71CXY1

Model: FLQN90EXV1-RQ90DXV1 / FLQN90EXV1-RQ90DXY1 / FLQN100EXV1-RQ100DXV1 / FLQN100EXV1-RQ100DXY1 / FLQN125EXV1-RQ125DXY1 / FHQN140CXV1-RQ140DXY1


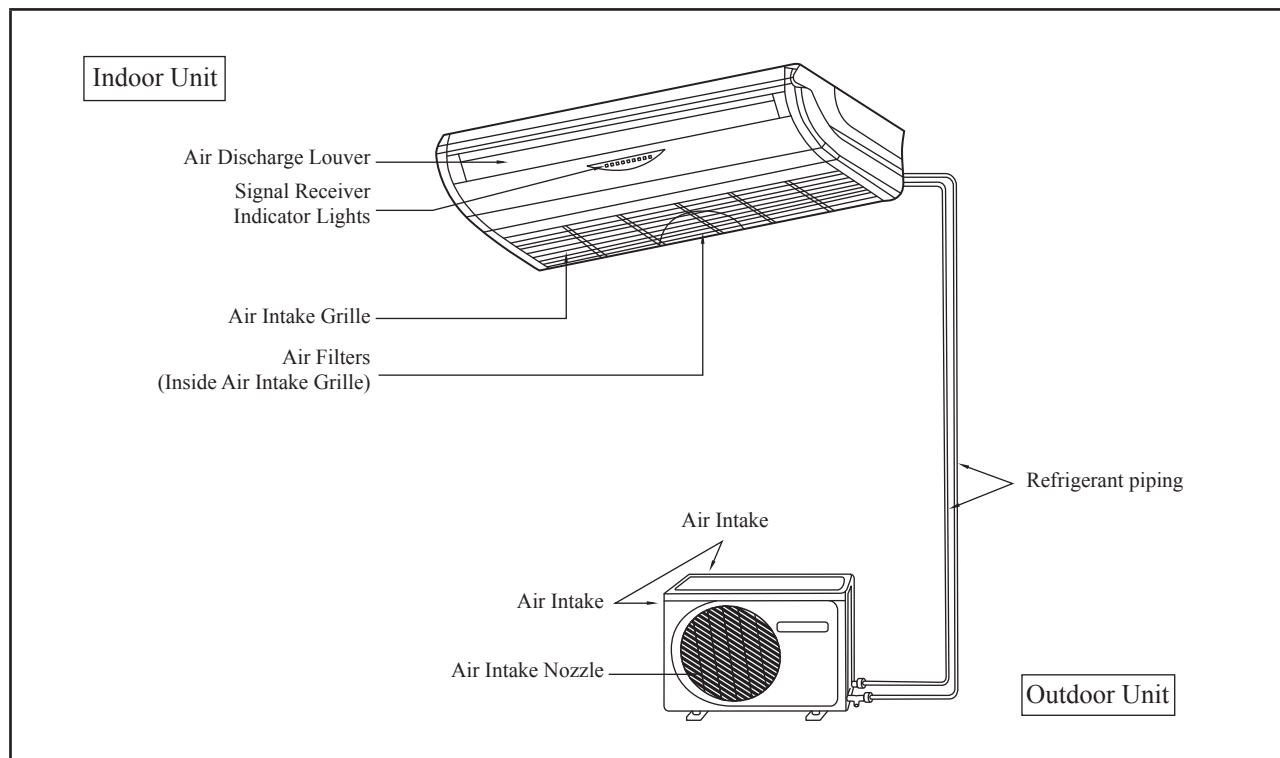
Installation Guideline



Caution

Sharp edges and coil surfaces are potential injury hazard. Avoid from contact with them.

Installation Diagram

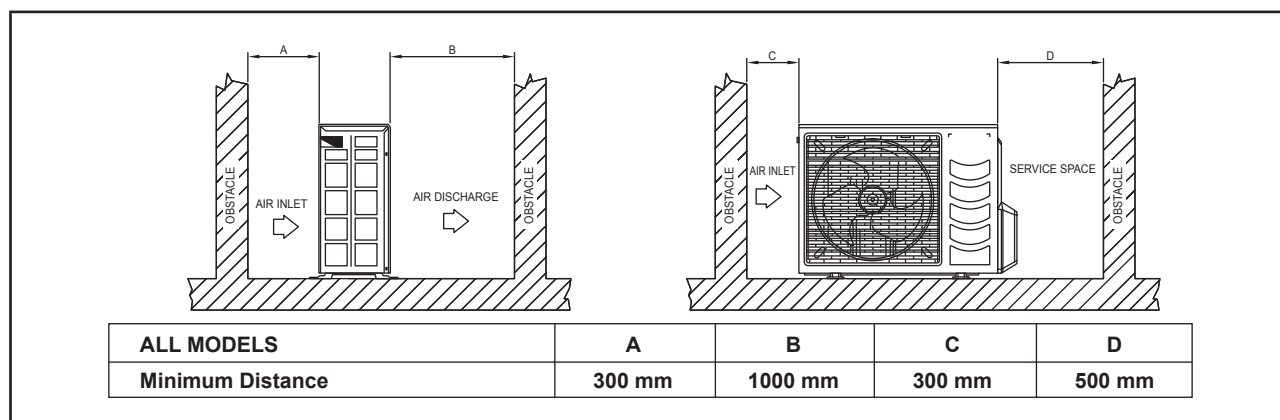


Outdoor Clearance



Caution

If the condensing unit is operated in an atmosphere containing oils (including machine oils), salt (coastal area), sulphide gas (near hot spring, oil refinery plant), such as substances may lead to failure of the unit.



Cable Size

Model	Unit	FLRN35EXV1	FLRN50EXV1		FLRN60EXV1	
		RN35CXV1	RN50CXV1	RN50CXY1	RN60CXV1	RN60CXY1
Power supply cable size	mm ²	2.5	2.5	1.5	2.5	1.5
Number of wire		3	3	5	3	5
Interconnection cable size	mm ²	2.5	2.5	1.0	2.5	1.0
Number of wire		3	3	4	3	4
Recommended fuse	A	16	16	6	20	6

Model	Unit	FLRN71EXV1		FLRN90EXV1		FLRN100EXV1	
		RR71CXV1	RR71CXY1	RR90DXV1	RR90DXY1	RR100DXV1	RR100DXY1
Power supply cable size	mm ²	2.5	1.5	4	1.5	4	2.5
Number of wire		3	5	3	5	3	5
Interconnection cable size	mm ²	2.5	1.0	1.5	1.5	1.5	1.5
Number of wire		3	4	4	4	4	4
Recommended fuse	A	20	8	30	10	30	13

Model	Unit	FLRN125EXV1	FHRN140CXV1	FLQN35EXV1	FLQN50EXV1	
		RR125DXY1	RR140DXY1	RYN35CXV1	RYN50CXV1	RYN50CXY1
Power supply cable size	mm ²	2.5	2.5	2.5	2.5	1.5
Number of wire		5	5	3	3	5
Interconnection cable size	mm ²	1.5	1.5	2.5	2.5	1.0
Number of wire		4	4	5	5	6
Recommended fuse	A	13	16	16	16	6

Model	Unit	FLQN60EXV1		FLQN71EXV1	
		RYN60CXV1	RYN60CXY1	RQ71CXV1	RQ71CXY1
Power supply cable size	mm ²	2.5	1.5	2.5	1.5
Number of wire		3	5	3	5
Interconnection cable size	mm ²	2.5	1.0	2.5	1.0
Number of wire		5	6	5	6
Recommended fuse	A	20	6	20	8

Model	Unit	FLQN90EXV1		FLQN100EXV1	
		RQ90DXV1	RQ90DXY1	RQ100DXV1	RQ100DXY1
Power supply cable size	mm ²	4	1.5	4	2.5
Number of wire		3	5	3	5
Interconnection cable size	mm ²	1.5	1.5	1.5	1.5
Number of wire		4 & 3	4 & 3	4 & 3	4 & 3
Recommended fuse	A	30	10	30	13

Model	Unit	FLQN125EXV1	FHQN140CXV1
		RQ125DXY1	RQ140DXY1
Power supply cable size	mm ²	2.5	2.5
Number of wire		5	5
Interconnection cable size	mm ²	1.5	1.5
Number of wire		4 & 3	4 & 3
Recommended fuse	A	13	16

Refrigerant Piping

If the pipe length is too long, both the capacity and the reliability of the unit will decrease. As the number of bends increases, resistance of the piping system to the refrigerant flow increases and thus lowering the capacity, as a result the compressor may become defective. Always choose the shortest path and follow the recommendation as tabulated as below

Model	Indoor	FLRN35EXV1	FLRN50EXV1		FLRN60EXV1	
	Outdoor	RN35CXV1	RN50CXV1	RN50CXY1	RN60CXV1	RN60CXY1
Max. Length, m		12	15	15	15	15
Max. Elevation, m		5	8	8	8	8

Model	Indoor	FLRN71EXV1		FLRN90EXV1	
	Outdoor	RR71CXV1	RR71CXY1	RR90DXV1	RR90DXY1
Max. Length, m		15	15	45	45
Max. Elevation, m		8	8	25	25

Model	Indoor	FLRN100EXV1		FLRN125EXV1	FHRN140CXV1
	Outdoor	RR100DXV1	RR100DXY1	RR125DXY1	RR140DXY1
Max. Length, m		45	45	45	35
Max. Elevation, m		25	25	25	15

Model	Indoor	FLQN35EXV1	FLQN50EXV1		FLQN60EXV1	
	Outdoor	RYN35CXV1	RYN50CXV1	RYN50CXY1	RYN60CXV1	RYN60CXY1
Max. Length, m		12	15	15	15	15
Max. Elevation, m		5	8	8	8	8

Model	Indoor	FLQN71EXV1		FLQN90EXV1	
	Outdoor	RQ71CXV1	RQ71CXY1	RQ90DXV1	RQ90DXY1
Max. Length, m		15	15	45	45
Max. Elevation, m		8	8	25	25

Model	Indoor	FLQN100EXV1		FLQN125EXV1	FHQN140CXV1
	Outdoor	RQ100DXV1	RQ100DXY1	RQ125DXY1	RQ140DXY1
Max. Length, m		45	45	45	35
Max. Elevation, m		25	25	25	15

Piping sizes (flare connection type) are as follows:

R410A

Model	RN35CXV1	RN50CXV1	RN50CXY1	RN60CXV1	RN60CXY1
Liquid, mm / in	6.35 / 1/4	6.35 / 1/4	6.35 / 1/4	6.35 / 1/4	6.35 / 1/4
Gas, mm / in	12.70 / 1/2	12.70 / 1/2	12.70 / 1/2	15.88 / 5/8	15.88 / 5/8

Model	RR71CXV1	RR71CXY1	RR90DXV1	RR90DXY1	RR100DXV1
Liquid, mm / in	9.52 / 3/8	9.52 / 3/8	9.52 / 3/8	9.52 / 3/8	9.52 / 3/8
Gas, mm / in	15.88 / 5/8	15.88 / 5/8"	15.88 / 5/8	15.88 / 5/8"	15.88 / 5/8

Model	RR100DXY1	RR125DXY1	RR140DXY1
Liquid, mm / in	9.52 / 3/8	9.52 / 3/8	9.52 / 3/8
Gas, mm / in	15.88 / 5/8"	15.88 / 5/8"	19.05 / 3/4"

Model	RYN35CXV1	RYN50CXV1	RYN50CXY1	RYN60CXV1	RYN60CXY1
Liquid, mm / in	6.35 / 1/4	6.35 / 1/4	6.35 / 1/4	6.35 / 1/4	6.35 / 1/4
Gas, mm / in	12.70 / 1/2	12.70 / 1/2	12.70 / 1/2	15.88 / 5/8	15.88 / 5/8

Model	RQ71CXV1	RQ71CXY1	RQ90DXV1	RQ90DXY1	RQ100DXV1
Liquid, mm / in	9.52 / 3/8	9.52 / 3/8	9.52 / 3/8	9.52 / 3/8	9.52 / 3/8
Gas, mm / in	15.88 / 5/8	15.88 / 5/8"	15.88 / 5/8	15.88 / 5/8"	15.88 / 5/8

Model	RQ100DXY1	RQ125DXY1	RQ140DXY1
Liquid, mm / in	9.52 / 3/8	9.52 / 3/8	9.52 / 3/8
Gas, mm / in	15.88 / 5/8"	15.88 / 5/8"	19.05 / 3/4"

Additional Charge

The refrigerant is pre-charged in the outdoor unit. If the piping length is less than 7.6m, then additional charge after vacuuming is not necessary. If the piping length is more than 7.6m, then use the additional charge (g) per additional 1m length as tabulated:

R410A - Cooling Only

Indoor	FLRN35EXV1	FLRN50EXV1		FLRN60EXV1	
Outdoor	RN35CXV1	RN50CXV1	RN50CXY1	RN60CXV1	RN60CXY1
Add. Charge, g/m	9	10	10	10	10

Indoor	FLRN71EXV1		FLRN90EXV1	
Outdoor	RR71CXV1	RR71CXY1	RR90DXV1	RR90DXY1
Add. Charge, g/m	24	24	26	26

Indoor	FLRN100EXV1		FLRN125EXV1	FHRN140CXV1
Outdoor	RR100DXV1	RR100DXY1	RR125DXY1	RR140DXY1
Add. Charge, g/m	24	24	24	21

R410A – Heatpump

Indoor	FLQN35EXV1	FLQN50EXV1		FLQN60EXV1	
Outdoor	RYN35CXV1	RYN50CXV1	RYN50CXY1	RYN60CXV1	RYN60CXY1
Add. Charge, g/m	18	17	17	10	10

Indoor	FLQN71EXV1		FLQN90EXV1	
Outdoor	RQ71CXV1	RQ71CXY1	RQ90DXV1	RQ90DXY1
Add. Charge, g/m	39	39	27	27

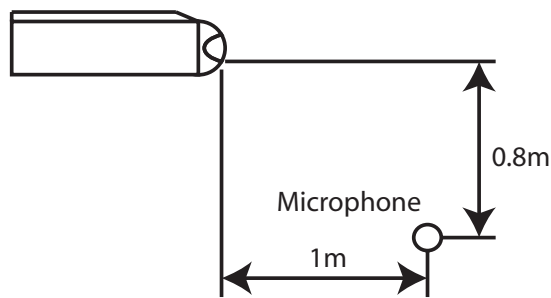
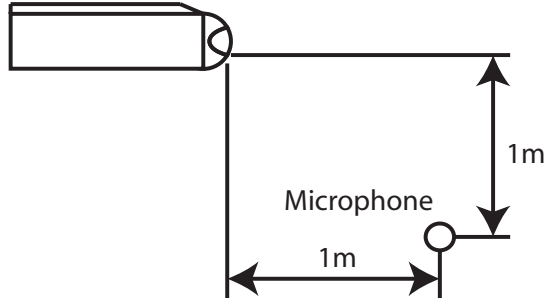
Indoor	FLQN100EXV1		FLQN125EXV1	FHQN140CXV1
Outdoor	RQ100DXV1	RQ100DXY1	RQ125DXY1	RQ140DXY1
Add. Charge, g/m	39	39	38	36

Note: Installation and maintenance are to be performed only by qualified personnel who are familiar with local codes and regulations, and experienced with this type of equipment.

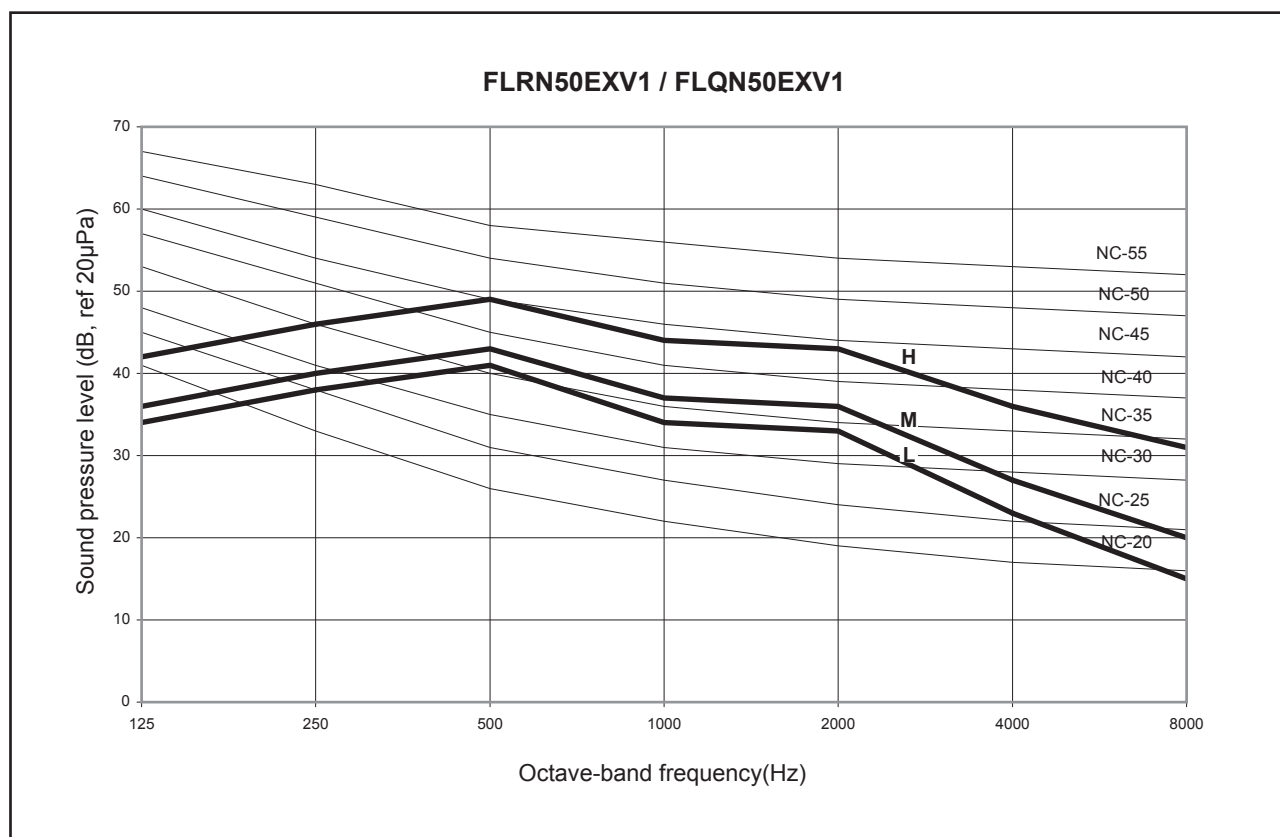
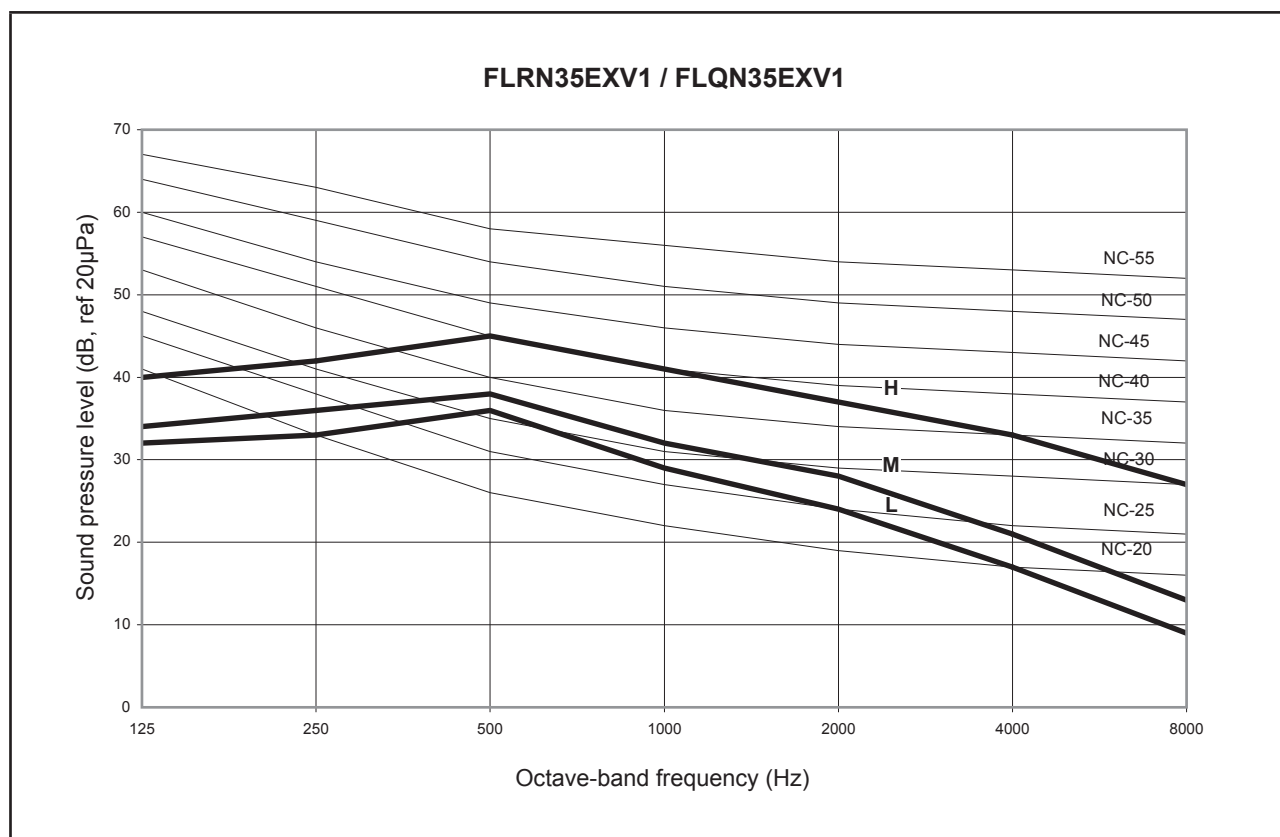
Sound Data

Sound Pressure Level

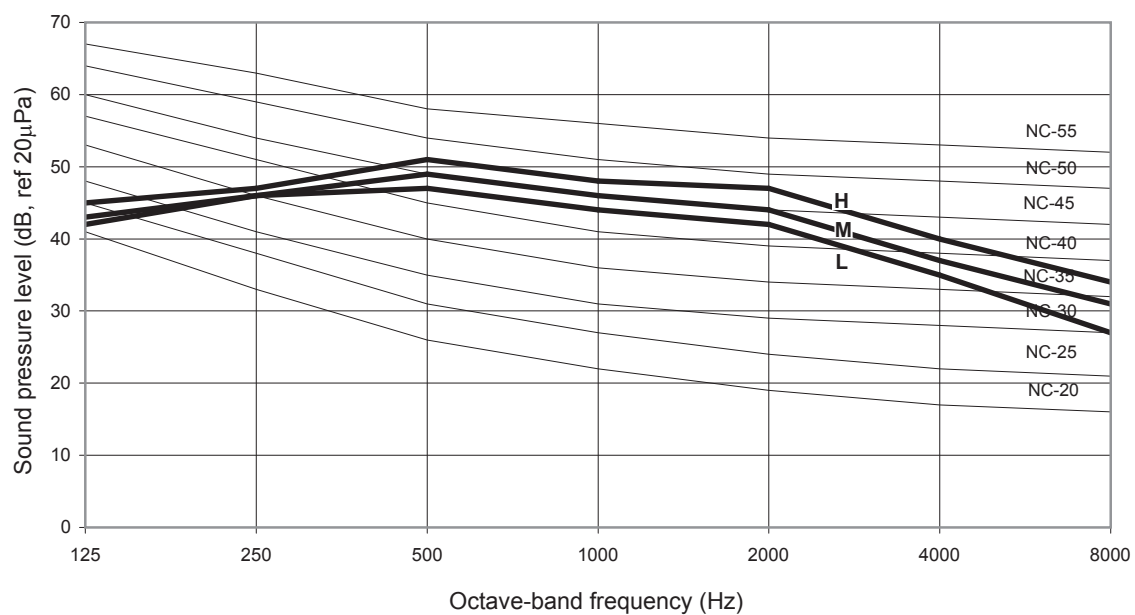
Model	Speed	1/1 Octave Sound Pressure (dB, ref 20μPa)							Overall (dBA)	Noise Criteria
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz		
FLRN35EXV1 / FLQN35EXV1	High	40	42	45	41	37	33	27	48	40
	Med	34	36	38	32	28	21	13	43	33
	Low	32	33	36	29	24	17	9	41	31
FLRN50EXV1 / FLQN50EXV1	High	42	46	49	44	43	36	31	48	45
	Med	36	40	43	37	36	27	20	46	38
	Low	34	38	41	34	33	23	15	43	36
FLRN60EXV1 / FLQN60EXV1	High	45	47	51	48	47	40	34	50	48
	Med	43	46	49	46	44	37	31	47	45
	Low	42	46	47	44	42	35	27	46	43
FLRN71EXV1 / FLQN71EXV1	High	47	50	53	50	50	43	39	56	51
	Med	44	46	49	46	45	38	33	51	46
	Low	38	40	43	38	37	28	22	44	38
FLRN90EXV1 / FLQN90EXV1	High	45	51	49	54	51	45	37	48	53
	Med	44	49	48	52	49	43	36	47	51
	Low	40	44	43	47	45	36	29	44	46
FLRN100EXV1 / FLQN100EXV1	High	49	52	52	55	53	47	42	52	54
	Med	49	51	50	54	51	44	39	47	53
	Low	49	46	46	49	46	38	32	46	48
FLRN125EXV1 / FLQN125EXV1	High	47	50	48	47	44	40	30	52	46
	Med	45	48	47	45	43	38	28	50	44
	Low	44	47	46	44	41	37	28	49	43
FHRN140CXV1 / FHQN140CXV1	High	34	45	49	52	49	44	37	56	51
	Med	32	43	46	49	46	41	33	53	48
	Low	26	36	40	42	38	32	24	46	41

Model	Measuring Location
FLRN35EXV1 FLRN50EXV1 FLRN60EXV1 FLRN71EXV1 FLQN35EXV1 FLQN50EXV1 FLQN60EXV1 FLQN71EXV1	 Standard: JIS C 9612
FLRN90EXV1 FLRN100EXV1 FLRN125EXV1 FHRN140CXV1 FLQN90EXV1 FLQN100EXV1 FLQN125EXV1 FHQN140CXV1	 Standard: JIS B 8616

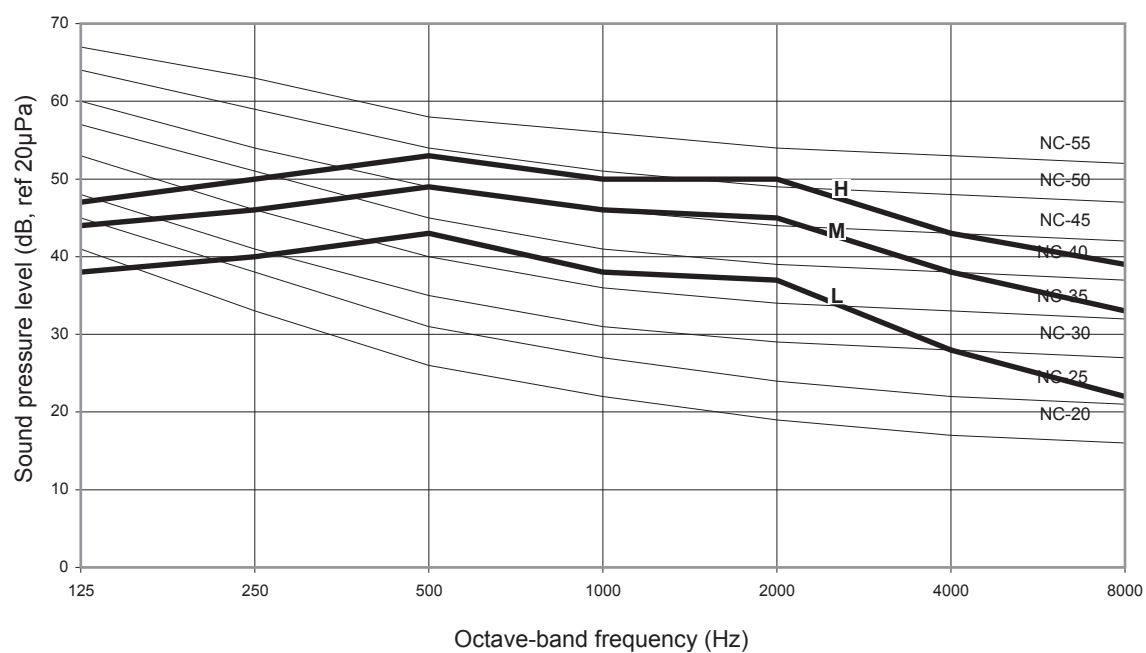
NC Curve

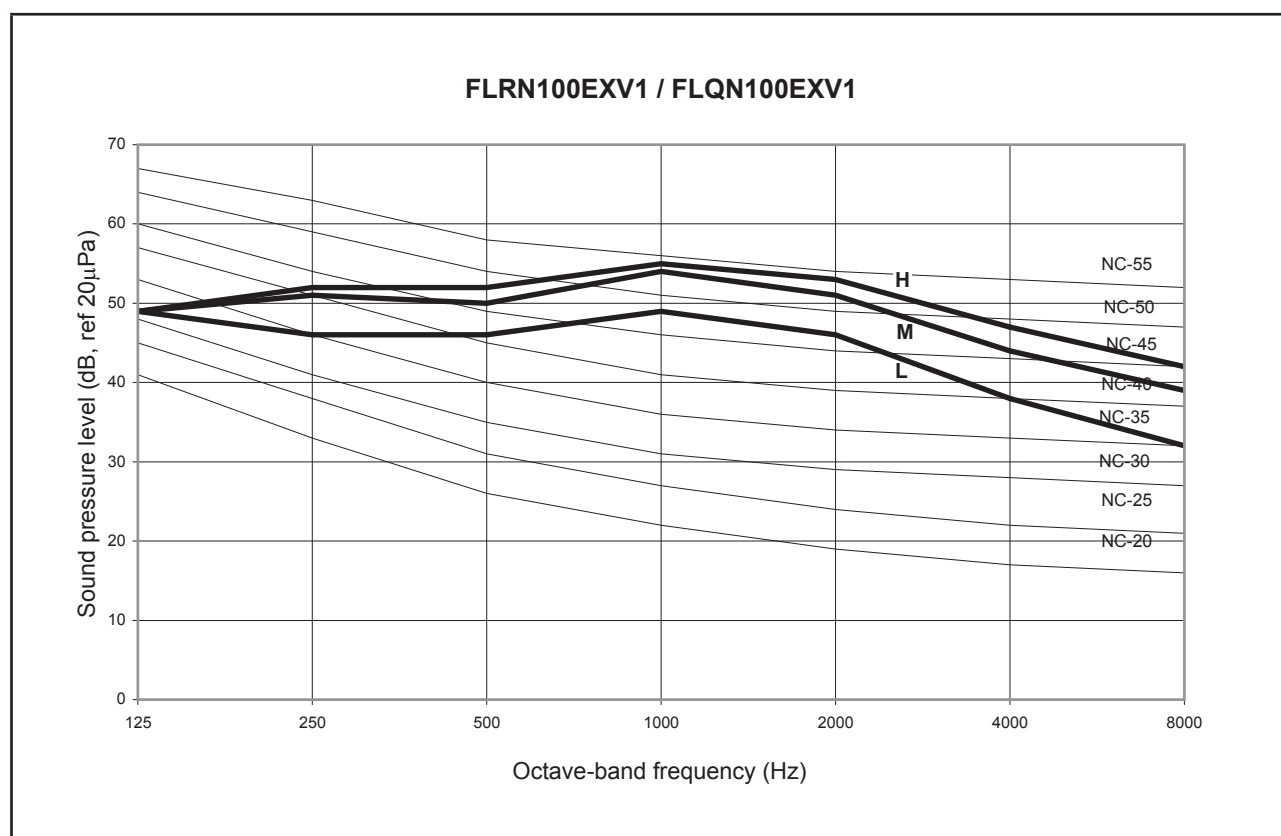
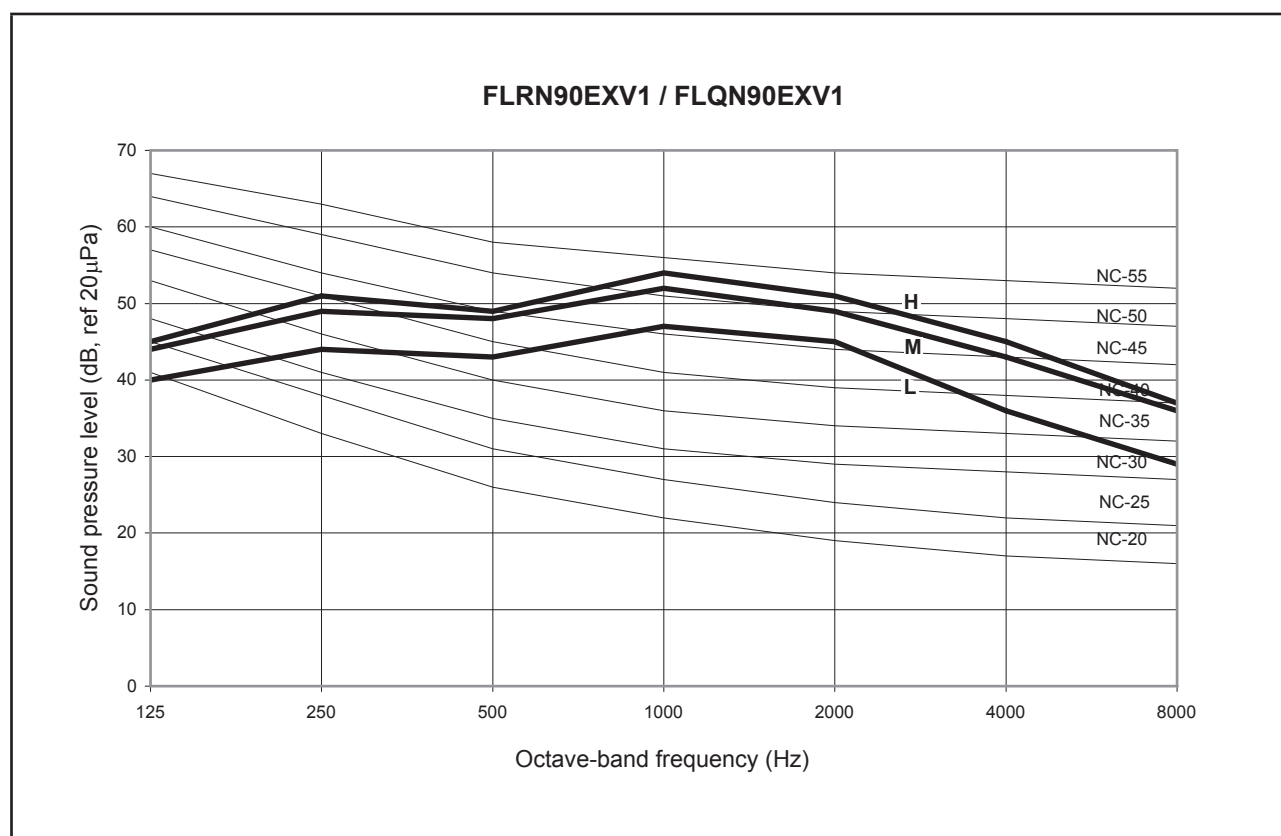


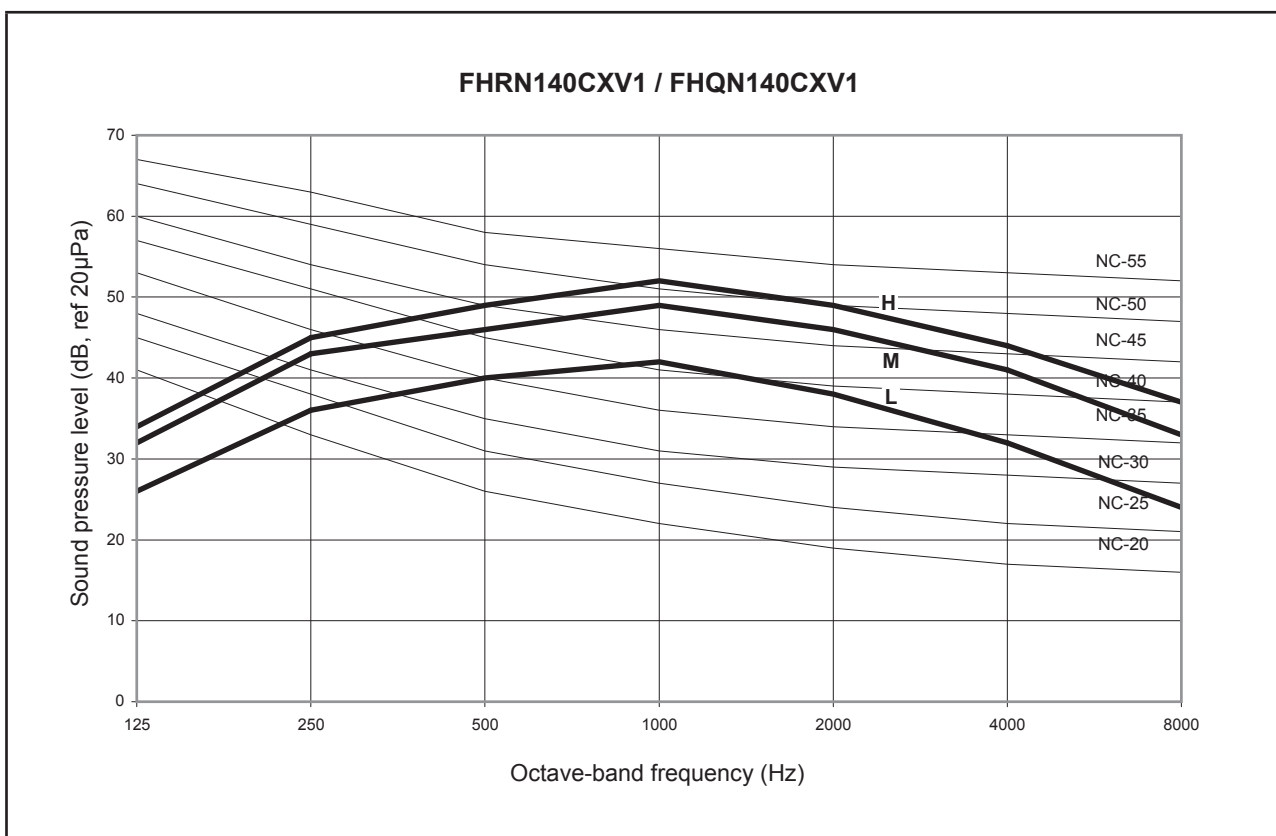
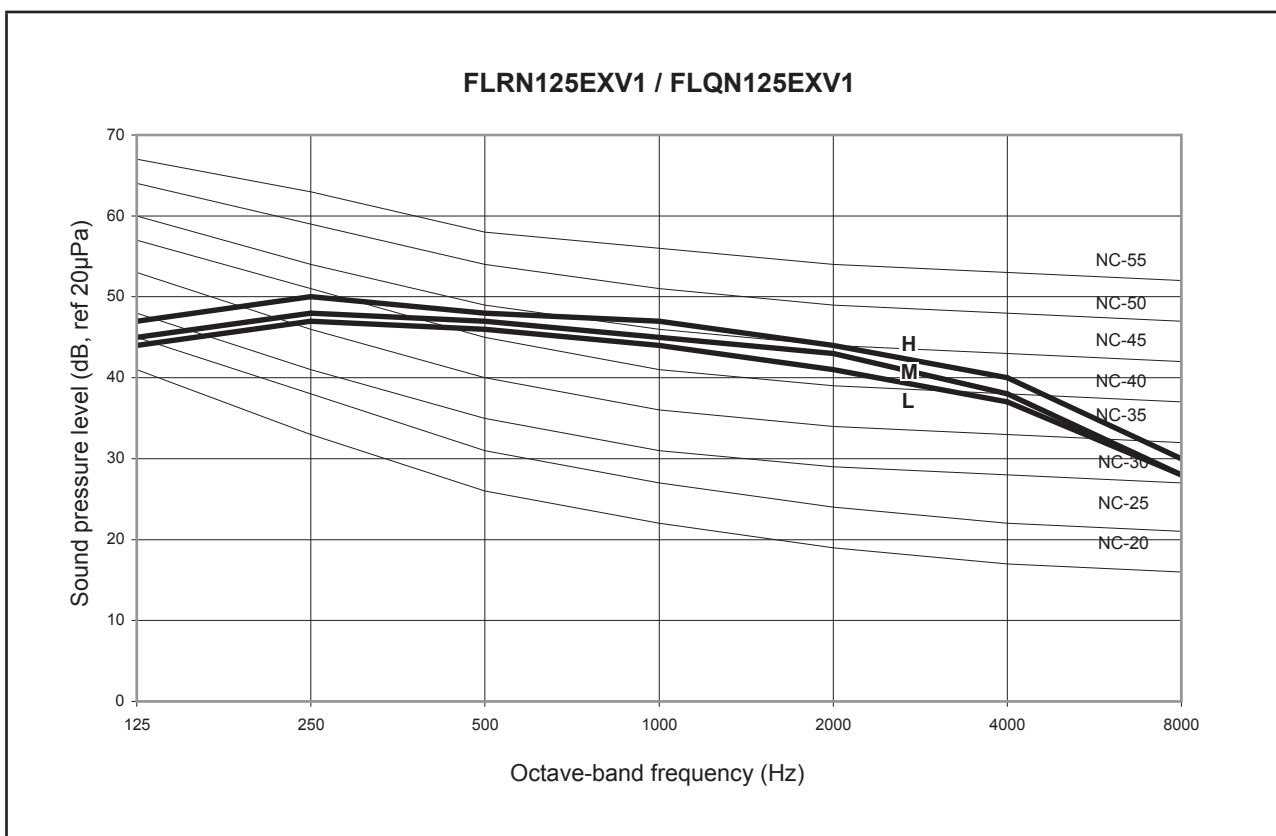
FLRN60EXV1 / FLQN60EXV1



FLRN71EXV1 / FLQN71EXV1







Engineering & Physical Data

Engineering Data - R410A MODEL

MODEL		INDOOR UNIT		FLRN35EXV1		FLRN50EXV1		FLRN60EXV1		
		OUTDOOR UNIT		RN35CXV1		RN50CXV1		RN50CXV1		
NOMINAL COOLING CAPACITY		Btu/h		12900		17500		18100		
		W		3780		5130		5300		
NOMINAL TOTAL INPUT POWER (COOLING)		W		1280		1723		1757		
NOMINAL RUNNING CURRENT (COOLING)		A		6.00		7.60		3.35		
EER		W/W		2.95		2.98		3.02		
REFRIGERANT CONTROL (EXPANSION DEVICE)										
REFRIGERANT CHARGE		kg		0.825		1.375		1.375		
MODEL		INDOOR UNIT		FLQN35EXV1		FLQN50EXV1		FLQN60EXV1		
		OUTDOOR UNIT		RYN35CXV1		RYN50CXV1		RYN60CXV1		
NOMINAL COOLING CAPACITY		Btu/h		12900		17500		18100		
		W		3780		5130		5300		
NOMINAL HEATING CAPACITY		Btu/h		11800		18500		18770		
		W		3460		5420		5500		
NOMINAL TOTAL INPUT POWER (COOLING)		W		1280		1723		1757		
NOMINAL TOTAL INPUT POWER (HEATING)		W		1130		1493		1527		
NOMINAL RUNNING CURRENT (COOLING)		A		6.00		7.60		3.35		
NOMINAL RUNNING CURRENT (HEATING)		A		5.10		6.60		2.85		
EER		W/W		2.95		2.98		3.02		
COP		W/W		3.06		3.63		3.60		
REFRIGERANT CONTROL (EXPANSION DEVICE)										
REFRIGERANT CHARGE		kg		0.825		1.375		1.375		
POWER SOURCE		V/Ph/Hz		220-240 / 1 / 50		220-240 / 1 / 50		380-415 / 3 / 50		
REFRIGERANT TYPE										
INDOOR UNIT	CONTROL		AIR DISCHARGE OPERATION				AUTOMATIC LOUVER (UP & DOWN)			
							WIRELESS OR WIRED REMOTE CONTROL			
	AIR FLOW		HIGH		I/s / CFM		240 / 508		245 / 520	
			MEDIUM		I/s / CFM		182 / 386		217 / 460	
			LOW		I/s / CFM		165 / 350		192 / 406	
	EXTERNAL STATIC PRESSURE		Pa (in.wg.)						0	
	SOUND PRESSURE LEVEL (H/M/L)		dBA		48 / 43 / 41		48 / 46 / 43		50 / 47 / 46	
	UNIT DIMENSION		HEIGHT X WIDTH X DEPTH		mm				218 x 1080 x 630	
	PACKING DIMENSION		HEIGHT X WIDTH X DEPTH		mm				297 x 1197 x 740	
	UNIT WEIGHT				kg				24	
	CONDENSATE DRAIN SIZE				mm				19.1	
	FAN		TYPE						BLOWER WHEEL	
			DRIVE						DIRECT	
	FAN MOTOR		TYPE						INDUCTION	
			INDEX OF PROTECTION (IP)						20	
			INSULATION GRADE						B	
			RATED INPUT POWER		W		84		86	
			RATED RUNNING CURRENT		A		0.37		0.38	
			MOTOR OUTPUT		W		40		50	
			POLES						4	
	COIL		TUBE		MATERIAL				COPPER	
					DIAMETER		mm		7.00	
			FIN		MATERIAL				ALUMINIUM	
					FACE AREA		m2		0.27	
			ROW				2		3	
	AIR QUALITY		FILTER		TYPE				SARANET	
					QUANTITY		pc		2	
	CASING				COLOUR				LIGHT GREY	
OUTDOOR UNIT	AIR FLOW		I/s / CFM		453 / 960		614 / 1300		614 / 1300	
			dBA		49		52		52	
	UNIT DIMENSION		HEIGHT X WIDTH X DEPTH		540 x 700 x 250		651 x 855 x 328		651 x 855 x 328	
	PACKING DIMENSION		HEIGHT X WIDTH X DEPTH		620 x 810 x 330		710 x 990 x 415		710 x 990 x 415	
	UNIT WEIGHT				kg		30		47	
	PIPE CONNECTION		TYPE						FLARE VALVE	
			SIZE		LIQUID		6.35		6.35	
					GAS		12.70		12.70	
	FAN		TYPE						PROPPULER	
			DRIVE						DIRECT	
	FAN MOTOR		TYPE						INDUCTION	
			INDEX OF PROTECTION (IP)				22		23	
			INSULATION GRADE				B		F	
			RATED INPUT POWER		W		70		80	
			RATED RUNNING CURRENT		A		0.31		0.36	
			MOTOR OUTPUT		W		35		42	
			POLES				6		6	
	COMPRESSOR		TYPE						ROTARY	
			OIL TYPE						RB68A or FREOL ALPHA68M	
			OIL AMOUNT		cm3		430		670	
			RATED INPUT POWER (COOLING)		W		1126		1557	
			RATED INPUT POWER (HEATING)		W		976		1327	
			RATED RUNNING CURRENT (COOLING)		A		5.32		6.86	
			RATED RUNNING CURRENT (HEATING)		A		4.42		5.86	
			LOCKED ROTOR AMP.		A		24		26	
	COIL		TUBE		MATERIAL				COPPER	
					DIAMETER		mm		7.00	
			FIN		MATERIAL				ALUMINIUM	
				FACE AREA		m2		0.36		
		ROW				1		2		
CASING				COLOUR				LIGHT GREY		

ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151 (NON-DUCTED UNIT) OR ISO 13253 (DUCTED UNIT).

COOLING		HEATING	
INDOOR: 27°C DB / 19°C WB		INDOOR: 20°C DB	
OUTDOOR: 35°C DB / 24°C WB		OUTDOOR: 7°C DB / 6°C WB	

Engineering Data - R410A MODEL

MODEL		INDOOR UNIT		FLRN71EXV1		FLRN90EXV1		
		OUTDOOR UNIT		RR71CXV1	RR71CXY1	RR90DXV1	RR90DXY1	
NOMINAL COOLING CAPACITY			Btu/h	28000	28000	31000	31000	
			W	7900	7620	9000	9000	
NOMINAL TOTAL INPUT POWER (COOLING)			W	2754	2715	2850	2700	
NOMINAL RUNNING CURRENT (COOLING)			A	13.3	4.60	14.2	5.20	
EER			W/W	2.87	2.81	3.16	3.33	
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR CAP TUBE				
REFRIGERANT CHARGE			kg	1.80	1.80	2.60	2.60	
MODEL		INDOOR UNIT		FLQN71EXV1		FLQN90EXV1		
		OUTDOOR UNIT		RQ71CXV1	RQ71CXY1	RQ90DXV1	RQ90DXY1	
NOMINAL COOLING CAPACITY			Btu/h	27000	26000	31000	31000	
			W	7900	7620	9000	9000	
NOMINAL HEATING CAPACITY			Btu/h	27500	26500	32000	33900	
			W	8050	7770	9360	9900	
NOMINAL TOTAL INPUT POWER (COOLING)			W	2754	2715	2850	2700	
NOMINAL TOTAL INPUT POWER (HEATING)			W	2455	2378	2820	2750	
NOMINAL RUNNING CURRENT (COOLING)			A	13.3	4.60	14.2	5.20	
NOMINAL RUNNING CURRENT (HEATING)			A	12.2	4.25	13.9	5.30	
EER			W/W	2.87	2.81	3.16	3.33	
COP			W/W	3.28	3.27	3.32	3.60	
REFRIGERANT CONTROL (EXPANSION DEVICE)				OUTDOOR CAP TUBE				
REFRIGERANT CHARGE			kg	1.80	2.15	2.60	2.60	
POWER SOURCE			V/Ph/Hz	220-240 / 1 / 50	380-415 / 3 / 50	220-240 / 1 / 50	380-415 / 3 / 50	
REFRIGERANT TYPE				R410A				
INDOOR UNIT	CONTROL	AIR DISCHARGE OPERATION		AUTOMATIC LOUVER (UP & DOWN)				
				WIRELESS OR WIRED REMOTE CONTROL				
	AIR FLOW	HIGH	l/s / CFM	302 / 640		400 / 840		
		MEDIUM	l/s / CFM	264 / 560		360 / 753		
		LOW	l/s / CFM	217 / 460		320 / 669		
	EXTERNAL STATIC PRESSURE		Pa (in.wg.)	0				
	SOUND PRESSURE LEVEL (H/M/L)		dBA	56 / 51 / 44		48 / 47 / 44		
	UNIT DIMENSION	HEIGHT X WIDTH X DEPTH	mm	218 x 1080 x 630		260 x 1320 x 634		
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	297 x 1197 x 740		352 x 1401 x 734		
	UNIT WEIGHT		kg	24		38		
	CONDENSATE DRAIN SIZE		mm	19.1				
	FAN	TYPE		BLOWER WHEEL				
		DRIVE		DIRECT				
	FAN MOTOR	TYPE		INDUCTION				
		INDEX OF PROTECTION (IP)		20				
		INSULATION GRADE		B				
		RATED INPUT POWER	W	160		165		
		RATED RUNNING CURRENT	A	0.79		0.73		
		MOTOR OUTPUT	W	70		92		
	COIL	TUBE	MATERIAL	COPPER				
			DIAMETER	mm	7.00			
		FIN	MATERIAL	ALUMINIUM				
			FACE AREA	m2	0.27			
	AIR QUALITY	FILTER	ROW	3				
			QUANTITY	pc	SARANET			
CASING		COLOUR	2					
OUTDOOR UNIT	AIR FLOW		l/s / CFM	684 / 1450	684 / 1450	1605 / 3400	1605 / 3400	
	SOUND PRESSURE LEVEL		dBA	58	58	58	58	
	UNIT DIMENSION	HEIGHT X WIDTH X DEPTH	mm	753 x 855 x 328	753 x 855 x 328	852 x 1030 x 400	852 x 1030 x 400	
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	810 X 990 x 415	810 X 990 x 415	1010 x 1180 x 514	1010 x 1180 x 514	
	UNIT WEIGHT		kg	57	57	86	86	
	PIPE CONNECTION	TYPE		FLARE VALVE				
		SIZE	LIQUID	mm	9.52	9.52	9.52	9.52
			GAS	mm	15.88	15.88	15.88	15.88
	FAN	TYPE		PROPELLER				
		DRIVE		DIRECT				
	FAN MOTOR	TYPE		INDUCTION				
		INDEX OF PROTECTION (IP)		23	23	N/A	N/A	
		INSULATION GRADE		F	F	B	B	
		RATED INPUT POWER	W	124	124	257	257	
		RATED RUNNING CURRENT	A	0.79	0.79	0.73	0.73	
		MOTOR OUTPUT	W	75	75	145	145	
	COMPRESSOR	POLES		6	6	8	8	
		TYPE		ROTARY		SCROLL		
		OIL TYPE		RB68A or FREOL ALPHA68M		MOBIL EAL ARCTIC 22CC		
		OIL AMOUNT		1242	1242	1242	1242	
		RATED INPUT POWER (COOLING)	W	2470	2431	2428	2278	
		RATED INPUT POWER (HEATING)	W	2171	2094	2398	2328	
		RATED RUNNING CURRENT (COOLING)	A	12.0	4.07	12.4	4.59	
		RATED RUNNING CURRENT (HEATING)	A	10.9	3.72	12.1	4.69	
	COIL	LOCKED ROTOR AMP.		A	65	26	97	48
TUBE		MATERIAL	COPPER					
		DIAMETER	mm	7.00				
FIN		MATERIAL	ALUMINIUM					
	FACE AREA	m2	0.62	0.62	0.87	0.87		
CASING		COLOUR	2	2	2	2		
				LIGHT GREY				

ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151 (NON-DUCTED UNIT) OR ISO 13253 (DUCTED UNIT).

COOLING	HEATING
INDOOR: 27°C DB / 19°C WB	INDOOR: 20°C DB
OUTDOOR: 35°C DB / 24°C WB	OUTDOOR: 7°C DB / 6°C WB

Engineering Data - R410A MODEL

MODEL			INDOOR UNIT	FLRN100EXV1		FLRN125EXV1	FHRN140CXV1	
			OUTDOOR UNIT	RR100DXV1	RR100DXV1	RR125DXV1	RR140DXV1	
NOMINAL COOLING CAPACITY			Btu/h	38000	39000	45000	55000	
			W	11100	11400	13190	16119	
NOMINAL TOTAL INPUT POWER (COOLING)			W	4025	3940	4517	6414	
NOMINAL RUNNING CURRENT (COOLING)			A	19.1	8.20	8.50	9.60	
EER			W/W	2.75	2.89	2.92	2.51	
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP TUBE					
REFRIGERANT CHARGE			kg	2.10	2.10	2.25	2.90	
MODEL			INDOOR UNIT	FLQN100EXV1	FLQN125EXV1	FHQN140CXV1		
			OUTDOOR UNIT	RQ100DXV1	RQ100DXV1	RQ125DXV1	RQ140DXV1	
NOMINAL COOLING CAPACITY			Btu/h	38000	38900	45000	55000	
			W	11100	11400	13190	16119	
NOMINAL HEATING CAPACITY			Btu/h	40000	42000	48000	55000	
			W	11700	12200	14070	16119	
NOMINAL TOTAL INPUT POWER (COOLING)			W	4025	3940	4517	6414	
NOMINAL TOTAL INPUT POWER (HEATING)			W	3705	3620	4200	6349	
NOMINAL RUNNING CURRENT (COOLING)			A	19.1	8.20	8.50	9.60	
NOMINAL RUNNING CURRENT (HEATING)			A	17.5	8.00	8.20	9.40	
EER			W/W	2.76	2.89	2.92	2.51	
COP			W/W	3.16	3.37	3.35	2.54	
REFRIGERANT CONTROL (EXPANSION DEVICE)			OUTDOOR CAP TUBE					
REFRIGERANT CHARGE			kg	2.10	2.10	2.25	2.90	
POWER SOURCE			V/Ph/Hz	220-240 / 1 / 50	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50	
REFRIGERANT TYPE			R410A					
INDOOR UNIT	CONTROL	AIR DISCHARGE OPERATION		AUTOMATIC LOUVER (UP & DOWN)				
				WIRELESS OR WIRED REMOTE CONTROL				
	AIR FLOW	HIGH	I/s / CFM	520 / 1100		573 / 1215	731 / 1550	
		MEDIUM	I/s / CFM	460 / 983		511 / 1082	623 / 1320	
		LOW	I/s / CFM	410 / 877		453 / 959	472 / 1000	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa (in.wg.)	0				
	SOUND PRESSURE LEVEL (H/M/L)		dBA	52 / 47 / 46		52 / 50 / 49	56 / 53 / 46	
	UNIT DIMENSION	HEIGHT X WIDTH X DEPTH	mm	260 x 1538 x 634		260 x 1786 x 634	285 x 1903 x 680	
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	352 x 1620 x 734		352 x 1868 x 734	351 x 2016 x 788	
	UNIT WEIGHT		kg	45		65	70	
	CONDENSATE DRAIN SIZE		mm	19.1				
	FAN	TYPE		BLOWER WHEEL				
		DRIVE		DIRECT				
	FAN MOTOR	TYPE		INDUCTION				
		INDEX OF PROTECTION (IP)		20		20	N/A	
		INSULATION GRADE		B		B	E	
		RATED INPUT POWER	W	218		295	160 x 2	
		RATED RUNNING CURRENT	A	0.98		1.32	0.67 x 2	
		MOTOR OUTPUT	W	118		149	80 x 2	
		POLES		4				
	COIL	TUBE	MATERIAL	COPPER				
			DIAMETER	mm	7.00		7.00	9.52
		FIN	MATERIAL	ALUMINIUM				
			FACE AREA	m2	0.32		0.32	0.42
	AIR QUALITY	FILTER	TYPE	3		4	4	
			QUANTITY	pc	3		4	5
	CASING		COLOUR	LIGHT GREY				
OUTDOOR UNIT	AIR FLOW		I/s / CFM	1605 / 3400	1605 / 3400	2171 / 4600	2171 / 4600	
	SOUND PRESSURE LEVEL		dBA	58	58	60	65	
	UNIT DIMENSION	HEIGHT X WIDTH X DEPTH	mm	852 x 1030 x 400	852 x 1030 x 400	852 x 1030 x 400	852 x 1030 x 400	
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	1010 x 1180 x 514	1010 x 1180 x 514	1010 x 1180 x 514	1010 x 1180 x 514	
	UNIT WEIGHT		kg	95	95	98	105	
	PIPE CONNECTION	SIZE	TYPE	FLARE VALVE				
			LIQUID	mm	9.52	9.52	9.52	9.52
			GAS	mm	15.88	15.88	15.88	19.05
	FAN	TYPE		PROPELLER				
		DRIVE		DIRECT				
	FAN MOTOR	TYPE		INDUCTION				
		INDEX OF PROTECTION (IP)		N/A	N/A	20	54	
		INSULATION GRADE		B	B	F	F	
		RATED INPUT POWER	W	257	257	276	496	
		RATED RUNNING CURRENT		1.10	1.10	1.34	2.18	
		MOTOR OUTPUT	W	145	145	145	400	
		POLES		8				
	COMPRESSOR	TYPE		SCROLL				
		OIL TYPE		MOBIL EAL ARCTIC 22CC				
		OIL AMOUNT	cm3	1951	1951	1656	1591	
		RATED INPUT POWER (COOLING)	W	3550	3465	3946	5598	
		RATED INPUT POWER (HEATING)	W	3230	3145	3629	5533	
		RATED RUNNING CURRENT (COOLING)	A	17.0	7.51	7.61	8.43	
		RATED RUNNING CURRENT (HEATING)	A	15.4	7.31	7.31	8.23	
	LOCKED ROTOR AMP.			136	64	74	74	
	COIL	TUBE	MATERIAL	COPPER				
			DIAMETER	mm	7.00			
		FIN	MATERIAL	ALUMINIUM				
			FACE AREA	m2	0.87	0.87	0.87	0.84
	CASING		COLOUR	2	2	2	3	

ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151 (NON-DUCTED UNIT) OR ISO 13253 (DUCTED UNIT).

COOLING		HEATING	
INDOOR: 27°C DB / 19°C WB		INDOOR: 20°C DB	
OUTDOOR: 35°C DB / 24°C WB		OUTDOOR: 7°C DB / 6°C WB	

Safety Device

R410A

MODEL	INDOOR			FLRN35EXV1	FLRN50EXV1	
	OUTDOOR			RN35CXV1	RN50CXV1	RN50CXY1
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A		
		OPEN	kPa / psi	N/A		
		CLOSE	kPa / psi	N/A		
	LOW PRESSURE SWITCH	TYPE		N/A		
		OPEN	kPa / psi	N/A		
		CLOSE	kPa / psi	N/A		
	PHASE SEQUENCER			N/A		YES
	DISCHARGE THERMOSTAT SETTING		°C / °F	N/A		130 / 266

MODEL	INDOOR			FLRN60EXV1		FLRN71EXV1	
	OUTDOOR			RN60CXV1	RN60CXY1	RR71CXV1	RR71CXY1
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A			
		OPEN	kPa / psi	N/A			
		CLOSE	kPa / psi	N/A			
	LOW PRESSURE SWITCH	TYPE		N/A			
		OPEN	kPa / psi	N/A			
		CLOSE	kPa / psi	N/A			
	PHASE SEQUENCER			N/A	YES	N/A	YES
	DISCHARGE THERMOSTAT SETTING		°C / °F	N/A	130 / 266	N/A	130 / 266

MODEL	INDOOR			FLRN90EXV1	FLRN90EXV1	FLRN100EXV1	
	OUTDOOR			RR90DXV1	RR90DXY1	RR100DXV1	RR100DXY1
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		NC			
		OPEN	kPa / psi	4137 / 600			
		CLOSE	kPa / psi	3310 / 480			
	LOW PRESSURE SWITCH	TYPE		NC			
		OPEN	kPa / psi	48 / 7			
		CLOSE	kPa / psi	152 / 22			
	PHASE SEQUENCER			N/A	YES	N/A	YES
	DISCHARGE THERMOSTAT SETTING		°C / °F	N/A	130 / 266	N/A	130 / 266

MODEL	INDOOR			FLRN125EXV1	FHRN140CXV1
	OUTDOOR			RR125DXY1	RR140DXY1
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		NC	
		OPEN	kPa / psi	4137 / 600	
		CLOSE	kPa / psi	3310 / 480	
	LOW PRESSURE SWITCH	TYPE		NC	
		OPEN	kPa / psi	48 / 7	
		CLOSE	kPa / psi	152 / 22	
	PHASE SEQUENCER			YES	
	DISCHARGE THERMOSTAT SETTING		°C / °F	130 / 266	

ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

MODEL	INDOOR			FLQN35EXV1	FLQN50EXV1	
	OUTDOOR			RYN35CXV1	RYN50CXV1	RYN50CXY1
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A		
		OPEN	kPa / psi	N/A		
		CLOSE	kPa / psi	N/A		
	LOW PRESSURE SWITCH	TYPE		N/A		
		OPEN	kPa / psi	N/A		
		CLOSE	kPa / psi	N/A		
	PHASE SEQUENCER			N/A		YES
	DISCHARGE THERMOSTAT SETTING		°C / °F	N/A		130 / 266

MODEL	INDOOR			FLQN60EXV1		FLQN71EXV1	
	OUTDOOR			RYN60CXV1	RYN60CXY1	RQ71CXV1	RQ71CXY1
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		N/A			
		OPEN	kPa / psi	N/A			
		CLOSE	kPa / psi	N/A			
	LOW PRESSURE SWITCH	TYPE		N/A			
		OPEN	kPa / psi	N/A			
		CLOSE	kPa / psi	N/A			
	PHASE SEQUENCER			N/A			
	DISCHARGE THERMOSTAT SETTING		°C / °F	N/A	130 / 266	N/A	130 / 266

MODEL	INDOOR			FLQN90EXV1		FLQN100EXV1	
	OUTDOOR			RQ90DXV1	RQ90DXY1	RQ100DXV1	RQ100DXY1
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		NC			
		OPEN	kPa / psi	4137 / 600			
		CLOSE	kPa / psi	3310 / 480			
	LOW PRESSURE SWITCH	TYPE		NC			
		OPEN	kPa / psi	48 / 7			
		CLOSE	kPa / psi	152 / 22			
	PHASE SEQUENCER			N/A	YES	N/A	YES
	DISCHARGE THERMOSTAT SETTING		°C / °F	N/A	130 / 266	N/A	130 / 266

MODEL	INDOOR			FDMQN125CXV1	FDMQN140CXV1
	OUTDOOR			RQ125DXY1	RQ140DXY1
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		NC	
		OPEN	kPa / psi	4137 / 600	
		CLOSE	kPa / psi	3310 / 480	
	LOW PRESSURE SWITCH	TYPE		NC	
		OPEN	kPa / psi	48 / 7	
		CLOSE	kPa / psi	152 / 22	
	PHASE SEQUENCER			YES	
	DISCHARGE THERMOSTAT SETTING		°C / °F	130 / 266	

ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

Performance Data

Calculation Steps

Interpolation method can be used to get the total cooling capacity, **TC** and sensible cooling capacity, **SC** and power input, **PI** at those temperatures which are not stated out in the table. Extrapolation method is not allowed to be used.

Example:

Model: FL15EXV1 – R15CXV1

Indoor Condition: 25°C DB, 17°C WB

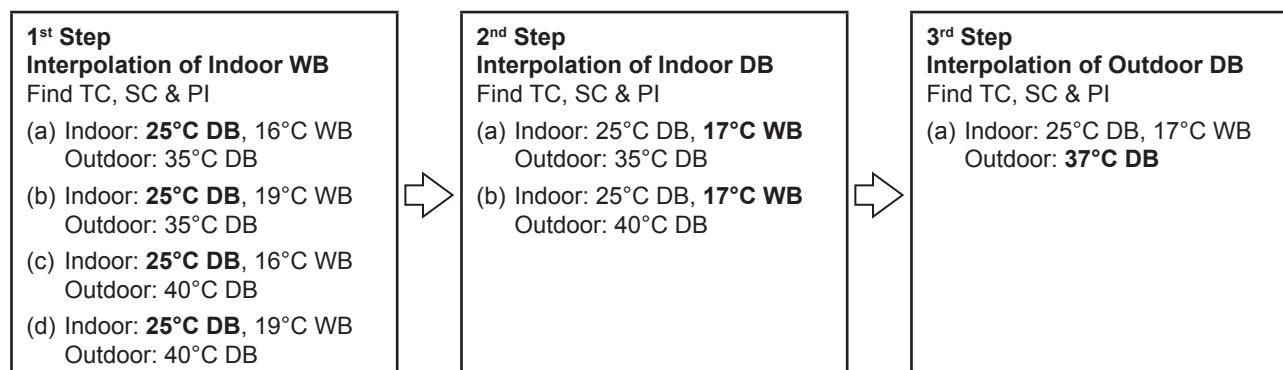
Outdoor Condition: 37°C DB

Fan Speed: High

Solution:

Based on the Performance Table,

1. Refer to the Indoor DB column,
 - **25°C** is located between 24°C & 27°C for 16°C WB.
 - **25°C** is located between 24°C & 27°C for 19°C WB.
 - Thus, Interpolation needs to be applied.
2. Refer to the Indoor WB column,
 - **17°C** is located between 16°C & 19°C for 25°C DB.
 - Thus, Interpolation needs to be applied.
3. Refer to the Outdoor DB column,
 - **37°C** is located between 35°C & 40°C.
 - Thus, Interpolation needs to be applied.



Details of Calculation:

1st Step:

To obtain the TC, SC & PI for

(a) Indoor Condition: 25°C DB, 16°C WB

Outdoor Condition: 35°C DB

EWB	EDB	Outdoor temperature			
			35°C		
			TC	SC	PI
			⋮	⋮	⋮
16	24		3.20	3.20	1.27
	25	-----	x_1	y_1	z_1
	27		3.30	3.30	1.27

By Interpolation Method

$$\Rightarrow \frac{25^\circ\text{C} - 24^\circ\text{C}}{27^\circ\text{C} - 24^\circ\text{C}} = \frac{x_1 - 3.20\text{kW}}{3.30\text{kW} - 3.20\text{kW}}$$

$$\Rightarrow x_1 = 3.23\text{kW}$$

Similarly,

$$y_1 = 3.23\text{kW}$$

$$z_1 = 1.27\text{kW}$$

(b) Indoor Condition: 25°C DB, 16°C WB
Outdoor Condition: 35°C DB

EWB	EDB	Outdoor temperature				
		35°C				
			TC	SC	PI	
			↓	↓	↓	
19	24		3.51	2.57	1.29	
	25	-----	x ₂	y ₂	z ₂	
	27		3.52	2.99	1.29	

By Interpolation Method

$$\Rightarrow \frac{25^{\circ}\text{C} - 24^{\circ}\text{C}}{27^{\circ}\text{C} - 24^{\circ}\text{C}} = \frac{x_2 - 3.51\text{kW}}{3.52\text{kW} - 3.51\text{kW}}$$

$$\Rightarrow x_2 = 3.51\text{kW}$$

Similarly,

$$y_2 = 2.71\text{kW}$$

$$z_2 = 1.29\text{kW}$$

Repeat the same process for (c) & (d) in 1st Step

$$(c) \ x_3 = 2.98 \text{ kW}; y_3 = 2.98 \text{ kW}; z_3 = 1.38 \text{ kW}$$

$$(d) \ x_4 = 3.22 \text{ W}; y_4 = 2.53 \text{ kW}; z_4 = 1.40 \text{ kW}$$

2nd Step:

To obtain the TC, SC & PI for

(a) Indoor Condition: 25°C DB, 17°C WB
Outdoor Condition: 35°C DB

EWB	EDB	Outdoor temperature				
		35°C				
			TC	SC	PI	
			↓	↓	↓	
16	25		3.23	3.23	1.27	
17		-----	x ₅	y ₅	z ₅	
19			3.51	2.71	1.29	

By Interpolation Method

$$\Rightarrow \frac{17^{\circ}\text{C} - 16^{\circ}\text{C}}{19^{\circ}\text{C} - 16^{\circ}\text{C}} = \frac{x_5 - 3.23\text{kW}}{3.51\text{kW} - 3.23\text{kW}}$$

$$\Rightarrow x_5 = 3.32\text{kW}$$

Similarly,

$$y_5 = 3.06\text{kW}$$

$$z_5 = 1.28\text{kW}$$

Repeat the same process for (b) in 2nd Step

$$(c) \ x_6 = 3.06 \text{ kW}; y_6 = 2.83 \text{ kW}; z_6 = 1.39 \text{ kW}$$

3rd Step:

To obtain the TC, SC & PI for

(a) Indoor Condition: 25°C DB, 17°C WB
Outdoor Condition: 37°C DB

EWB	EDB	Outdoor temperature									
			35°C			37°C			40°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI
						↓	↓	↓			
25	17	-----	3.32	3.06	1.28	x	y	z	3.06	2.83	1.39

By Interpolation Method

$$\Rightarrow \frac{37^{\circ}\text{C} - 35^{\circ}\text{C}}{40^{\circ}\text{C} - 35^{\circ}\text{C}} = \frac{x - 3.32\text{kW}}{3.06\text{kW} - 3.32\text{kW}}$$

$$\Rightarrow x = 3.22\text{kW}$$

Similarly,

$$y = 2.97\text{kW}$$

$$z = 1.35\text{kW}$$

Performance Tables

R410A Cooling Only

Model: FLRN35EXV1 - RN35CXV1

Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
350	16°C	21°C	3.56	2.62	0.97	3.44	2.56	1.05	3.31	2.49	1.14	3.18	2.42	1.24	2.92	2.25	1.34	2.69	2.11	1.48
		24°C	3.57	3.14	0.97	3.44	3.07	1.05	3.31	3.00	1.14	3.18	2.92	1.24	2.92	2.73	1.34	2.70	2.58	1.48
		27°C	3.60	3.56	0.97	3.48	3.48	1.05	3.36	3.36	1.14	3.23	3.23	1.24	2.98	2.98	1.34	2.77	2.77	1.48
		30°C	3.71	3.71	0.98	3.60	3.60	1.06	3.49	3.49	1.15	3.38	3.38	1.25	3.13	3.13	1.36	2.93	2.93	1.50
	19°C	24°C	3.93	2.45	0.99	3.79	2.39	1.07	3.65	2.32	1.16	3.51	2.26	1.26	3.23	2.10	1.36	2.98	1.98	1.50
		27°C	3.93	2.80	0.99	3.80	2.74	1.07	3.66	2.68	1.16	3.51	2.61	1.26	3.23	2.44	1.36	2.99	2.32	1.50
		30°C	3.94	3.46	0.99	3.80	3.39	1.07	3.67	3.31	1.16	3.53	3.23	1.26	3.25	3.02	1.37	3.02	2.86	1.51
		33°C	3.99	3.99	0.99	3.86	3.86	1.07	3.73	3.73	1.16	3.60	3.60	1.26	3.34	3.34	1.37	3.12	3.12	1.51
	22°C	27°C	4.33	2.40	1.01	4.18	2.34	1.09	4.02	2.28	1.18	3.87	2.22	1.28	3.56	2.07	1.39	3.29	1.95	1.53
		30°C	4.33	2.92	1.01	4.18	2.86	1.09	4.02	2.80	1.18	3.87	2.73	1.28	3.56	2.55	1.39	3.29	2.42	1.53
		33°C	4.33	3.41	1.01	4.18	3.35	1.09	4.03	3.28	1.18	3.87	3.21	1.28	3.56	3.02	1.39	3.30	2.87	1.53
		36°C	4.34	3.87	1.01	4.20	3.79	1.09	4.05	3.71	1.18	3.91	3.63	1.28	3.60	3.41	1.39	3.35	3.23	1.54
386	16°C	21°C	3.71	2.74	0.98	3.57	2.67	1.06	3.44	2.60	1.15	3.30	2.52	1.25	3.03	2.35	1.35	2.79	2.21	1.49
		24°C	3.72	3.32	0.98	3.59	3.24	1.06	3.45	3.17	1.15	3.31	3.09	1.25	3.04	2.88	1.35	2.81	2.72	1.49
		27°C	3.76	3.76	0.98	3.64	3.64	1.06	3.51	3.51	1.15	3.39	3.39	1.25	3.13	3.13	1.36	2.91	2.91	1.50
		30°C	3.92	3.92	0.99	3.81	3.81	1.07	3.69	3.69	1.16	3.57	3.57	1.26	3.31	3.31	1.37	3.09	3.09	1.52
	19°C	24°C	4.09	2.59	1.00	3.94	2.52	1.08	3.79	2.46	1.17	3.64	2.39	1.27	3.34	2.23	1.38	3.09	2.10	1.52
		27°C	4.09	2.98	1.00	3.95	2.92	1.08	3.80	2.85	1.17	3.65	2.78	1.27	3.35	2.60	1.38	3.10	2.46	1.52
		30°C	4.11	3.68	1.00	3.97	3.60	1.08	3.83	3.52	1.17	3.68	3.43	1.27	3.39	3.21	1.38	3.14	3.03	1.52
		33°C	4.18	4.18	1.00	4.05	4.05	1.09	3.92	3.92	1.18	3.79	3.79	1.28	3.51	3.51	1.39	3.29	3.29	1.53
	22°C	27°C	4.49	2.53	1.02	4.33	2.48	1.10	4.17	2.41	1.19	4.00	2.35	1.29	3.68	2.19	1.40	3.40	2.07	1.54
		30°C	4.49	3.11	1.02	4.34	3.05	1.10	4.17	2.98	1.19	4.01	2.91	1.29	3.68	2.72	1.40	3.41	2.59	1.55
		33°C	4.50	3.65	1.02	4.35	3.58	1.10	4.19	3.50	1.19	4.02	3.43	1.30	3.70	3.22	1.40	3.43	3.05	1.55
		36°C	4.53	4.12	1.02	4.38	4.04	1.10	4.23	3.96	1.20	4.08	3.87	1.30	3.76	3.62	1.41	3.51	3.41	1.56
508	16°C	21°C	3.85	2.86	0.99	3.70	2.78	1.07	3.56	2.71	1.16	3.41	2.63	1.26	3.13	2.45	1.36	2.89	2.31	1.50
		24°C	3.87	3.47	0.99	3.73	3.39	1.07	3.59	3.30	1.16	3.44	3.22	1.26	3.16	3.00	1.36	2.92	2.83	1.50
		27°C	3.93	3.93	0.99	3.80	3.80	1.08	3.67	3.67	1.17	3.54	3.54	1.26	3.27	3.27	1.37	3.05	3.05	1.51
		30°C	4.12	4.12	1.00	4.00	4.00	1.09	3.88	3.88	1.18	3.75	3.75	1.28	3.47	3.47	1.39	3.25	3.25	1.53
	19°C	24°C	4.23	2.74	1.01	4.08	2.67	1.09	3.92	2.60	1.18	3.76	2.53	1.28	3.46	2.36	1.39	3.19	2.23	1.53
		27°C	4.25	3.17	1.01	4.09	3.10	1.09	3.94	3.02	1.18	3.78	2.95	1.28	3.47	2.76	1.39	3.21	2.61	1.53
		30°C	4.28	3.90	1.01	4.13	3.81	1.09	3.98	3.73	1.18	3.83	3.63	1.28	3.52	3.39	1.39	3.27	3.20	1.54
		33°C	4.37	4.37	1.01	4.25	4.25	1.10	4.11	4.11	1.19	3.98	3.98	1.29	3.69	3.69	1.41	3.45	3.45	1.55
	22°C	27°C	4.64	2.68	1.02	4.48	2.62	1.11	4.31	2.55	1.20	4.14	2.49	1.30	3.80	2.32	1.41	3.51	2.19	1.56
		30°C	4.65	3.30	1.03	4.49	3.24	1.11	4.32	3.17	1.20	4.15	3.10	1.31	3.81	2.90	1.42	3.52	2.75	1.56
		33°C	4.67	3.87	1.03	4.51	3.80	1.11	4.34	3.72	1.21	4.17	3.64	1.31	3.84	3.41	1.42	3.56	3.24	1.56
		36°C	4.71	4.37	1.03	4.56	4.29	1.12	4.41	4.20	1.21	4.25	4.09	1.31	3.93	3.82	1.42	3.66	3.59	1.57

Remark:

AFR: Air flow rate (CFM)

EWB: Entering Wet Bulb Temp. (°C)

EDB: Entering Dry Bulb Temp. (°C)

TC: Total Cooling Capacity (kW)

SC: Sensible Cooling Capacity (kW)

PI: Power Input (kW)

Notes:

1. Ratings shown are net capacities.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Model: FLRN50EXV1 - RN50CXV1**Cooling Mode**

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
406	16°C	21°C	4.84	3.33	1.31	4.67	3.24	1.41	4.49	3.15	1.53	4.31	3.06	1.66	3.96	2.85	1.80	3.66	2.68	1.99
		24°C	4.84	3.98	1.31	4.67	3.89	1.41	4.50	3.80	1.53	4.32	3.71	1.66	3.97	3.46	1.80	3.67	3.27	1.99
		27°C	4.88	4.52	1.31	4.72	4.41	1.42	4.55	4.31	1.53	4.38	4.20	1.66	4.04	3.91	1.81	3.76	3.67	1.99
		30°C	5.03	5.03	1.32	4.89	4.89	1.42	4.74	4.74	1.54	4.59	4.59	1.68	4.25	4.25	1.82	3.98	3.98	2.01
	19°C	24°C	5.34	3.11	1.33	5.15	3.03	1.44	4.96	2.95	1.56	4.76	2.86	1.69	4.38	2.67	1.83	4.05	2.51	2.02
		27°C	5.34	3.55	1.33	5.15	3.47	1.44	4.96	3.39	1.56	4.77	3.31	1.69	4.38	3.10	1.83	4.05	2.94	2.02
		30°C	5.35	4.39	1.33	5.16	4.29	1.44	4.98	4.20	1.56	4.79	4.10	1.69	4.41	3.83	1.83	4.09	3.63	2.02
		33°C	5.41	5.41	1.33	5.23	5.23	1.44	5.07	5.07	1.56	4.89	4.89	1.70	4.53	4.53	1.84	4.23	4.23	2.04
	22°C	27°C	5.87	3.04	1.35	5.67	2.97	1.46	5.46	2.89	1.59	5.25	2.81	1.72	4.82	2.62	1.87	4.47	2.47	2.06
		30°C	5.87	3.71	1.35	5.67	3.63	1.46	5.46	3.54	1.59	5.25	3.46	1.72	4.83	3.24	1.87	4.47	3.07	2.06
		33°C	5.88	4.33	1.35	5.67	4.24	1.46	5.47	4.16	1.59	5.25	4.07	1.72	4.83	3.83	1.87	4.48	3.63	2.06
		36°C	5.89	4.91	1.35	5.70	4.81	1.47	5.50	4.71	1.59	5.30	4.60	1.73	4.89	4.32	1.87	4.55	4.10	2.06
460	16°C	21°C	5.03	3.47	1.32	4.85	3.38	1.43	4.67	3.29	1.54	4.48	3.20	1.67	4.11	2.98	1.82	3.79	2.80	2.00
		24°C	5.05	4.21	1.32	4.87	4.11	1.43	4.68	4.01	1.55	4.50	3.91	1.68	4.13	3.65	1.82	3.82	3.45	2.00
		27°C	5.11	4.78	1.32	4.94	4.67	1.43	4.77	4.55	1.55	4.60	4.42	1.68	4.24	4.10	1.83	3.95	3.84	2.02
		30°C	5.32	5.32	1.33	5.17	5.17	1.44	5.01	5.01	1.56	4.85	4.85	1.70	4.49	4.49	1.85	4.20	4.20	2.04
	19°C	24°C	5.54	3.28	1.34	5.35	3.20	1.45	5.15	3.12	1.57	4.94	3.03	1.70	4.54	2.82	1.85	4.19	2.66	2.04
		27°C	5.55	3.78	1.34	5.36	3.70	1.45	5.16	3.61	1.57	4.95	3.53	1.70	4.55	3.30	1.85	4.20	3.12	2.04
		30°C	5.58	4.66	1.34	5.39	4.56	1.45	5.19	4.46	1.57	5.00	4.35	1.71	4.60	4.07	1.85	4.27	3.84	2.04
		33°C	5.67	5.67	1.35	5.50	5.50	1.46	5.33	5.33	1.58	5.15	5.15	1.72	4.77	4.77	1.87	4.46	4.46	2.06
	22°C	27°C	6.09	3.21	1.36	5.88	3.14	1.48	5.66	3.06	1.60	5.43	2.98	1.74	4.99	2.78	1.88	4.62	2.62	2.08
		30°C	6.10	3.94	1.37	5.88	3.86	1.48	5.67	3.78	1.60	5.44	3.69	1.74	5.00	3.45	1.89	4.63	3.28	2.08
		33°C	6.11	4.62	1.37	5.90	4.53	1.48	5.68	4.44	1.60	5.46	4.35	1.74	5.02	4.08	1.89	4.65	3.87	2.08
		36°C	6.15	5.22	1.37	5.95	5.12	1.48	5.74	5.02	1.61	5.53	4.90	1.75	5.10	4.59	1.89	4.76	4.33	2.09
520	16°C	21°C	5.22	3.62	1.33	5.03	3.53	1.44	4.83	3.44	1.56	4.63	3.34	1.69	4.25	3.11	1.83	3.92	2.93	2.02
		24°C	5.25	4.40	1.33	5.06	4.29	1.44	4.87	4.19	1.56	4.67	4.08	1.69	4.29	3.81	1.83	3.96	3.59	2.02
		27°C	5.33	5.04	1.33	5.16	4.91	1.44	4.98	4.77	1.57	4.80	4.63	1.70	4.44	4.29	1.84	4.14	4.00	2.04
		30°C	5.60	5.60	1.35	5.43	5.43	1.46	5.27	5.27	1.58	5.09	5.09	1.72	4.72	4.72	1.87	4.40	4.40	2.06
	19°C	24°C	5.74	3.47	1.35	5.54	3.39	1.46	5.33	3.30	1.58	5.11	3.21	1.72	4.69	2.99	1.86	4.33	2.82	2.05
		27°C	5.76	4.02	1.35	5.55	3.93	1.46	5.35	3.83	1.59	5.13	3.74	1.72	4.71	3.50	1.87	4.35	3.31	2.06
		30°C	5.81	4.94	1.35	5.60	4.84	1.47	5.40	4.73	1.59	5.20	4.61	1.72	4.78	4.30	1.87	4.44	4.06	2.06
		33°C	5.93	5.93	1.36	5.76	5.76	1.48	5.58	5.58	1.60	5.40	5.40	1.74	5.00	5.00	1.89	4.68	4.68	2.09
	22°C	27°C	6.30	3.40	1.38	6.08	3.32	1.49	5.85	3.24	1.62	5.62	3.15	1.75	5.16	2.94	1.90	4.77	2.78	2.09
		30°C	6.32	4.19	1.38	6.09	4.11	1.49	5.86	4.02	1.62	5.63	3.93	1.75	5.17	3.68	1.90	4.78	3.49	2.09
		33°C	6.34	4.91	1.38	6.12	4.82	1.49	5.89	4.72	1.62	5.66	4.62	1.76	5.21	4.33	1.91	4.83	4.11	2.10
		36°C	6.39	5.54	1.38	6.19	5.44	1.50	5.98	5.32	1.63	5.77	5.19	1.76	5.33	4.84	1.91	4.97	4.56	2.11

Remark:

AFR: Air flow rate (CFM)

EWB: Entering Wet Bulb Temp. (°C)

EDB: Entering Dry Bulb Temp. (°C)

TC: Total Cooling Capacity (kW)

SC: Sensible Cooling Capacity (kW)

PI: Power Input (kW)

Notes:

1. Ratings shown are net capacities.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Model: FLRN50EXV1 - RN50CXY1**Cooling Mode**

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
406	16°C	21°C	5.00	3.44	1.34	4.82	3.35	1.45	4.64	3.26	1.57	4.46	3.17	1.70	4.09	2.95	1.84	3.78	2.77	2.03
		24°C	5.00	4.12	1.34	4.83	4.03	1.45	4.65	3.93	1.57	4.46	3.84	1.70	4.10	3.58	1.84	3.79	3.38	2.03
		27°C	5.04	4.67	1.34	4.88	4.57	1.45	4.70	4.46	1.57	4.53	4.35	1.70	4.18	4.04	1.85	3.89	3.80	2.04
		30°C	5.20	5.20	1.35	5.05	5.05	1.46	4.90	4.90	1.58	4.74	4.74	1.72	4.39	4.39	1.86	4.11	4.11	2.06
	19°C	24°C	5.51	3.21	1.36	5.32	3.13	1.47	5.12	3.05	1.59	4.92	2.96	1.73	4.52	2.76	1.87	4.18	2.60	2.07
		27°C	5.52	3.68	1.36	5.32	3.59	1.47	5.13	3.51	1.59	4.93	3.43	1.73	4.53	3.21	1.88	4.19	3.04	2.07
		30°C	5.52	4.54	1.36	5.33	4.44	1.47	5.15	4.34	1.59	4.95	4.24	1.73	4.56	3.96	1.88	4.23	3.75	2.07
		33°C	5.59	5.59	1.36	5.41	5.41	1.48	5.23	5.23	1.60	5.05	5.05	1.74	4.68	4.68	1.89	4.37	4.37	2.08
	22°C	27°C	6.06	3.15	1.38	5.85	3.07	1.50	5.64	2.99	1.62	5.42	2.91	1.76	4.98	2.71	1.91	4.61	2.56	2.11
		30°C	6.07	3.83	1.38	5.86	3.75	1.50	5.64	3.67	1.62	5.42	3.58	1.76	4.99	3.35	1.91	4.62	3.18	2.11
		33°C	6.07	4.48	1.38	5.86	4.39	1.50	5.65	4.31	1.62	5.43	4.22	1.76	4.99	3.96	1.91	4.63	3.76	2.11
		36°C	6.09	5.08	1.38	5.89	4.98	1.50	5.68	4.87	1.63	5.48	4.76	1.77	5.05	4.47	1.92	4.70	4.24	2.11
460	16°C	21°C	5.20	3.59	1.35	5.01	3.50	1.46	4.82	3.40	1.58	4.62	3.31	1.71	4.24	3.08	1.86	3.91	2.90	2.05
		24°C	5.22	4.36	1.35	5.03	4.26	1.46	4.84	4.15	1.58	4.64	4.05	1.71	4.27	3.78	1.86	3.94	3.57	2.05
		27°C	5.28	4.95	1.35	5.10	4.83	1.46	4.92	4.71	1.59	4.75	4.57	1.72	4.38	4.24	1.87	4.08	3.97	2.06
		30°C	5.50	5.50	1.36	5.34	5.34	1.48	5.18	5.18	1.60	5.01	5.01	1.74	4.64	4.64	1.89	4.34	4.34	2.08
	19°C	24°C	5.73	3.40	1.37	5.52	3.31	1.48	5.32	3.22	1.61	5.10	3.14	1.74	4.69	2.92	1.89	4.33	2.75	2.08
		27°C	5.74	3.91	1.37	5.53	3.83	1.48	5.33	3.74	1.61	5.11	3.65	1.74	4.70	3.41	1.89	4.34	3.23	2.09
		30°C	5.77	4.83	1.37	5.57	4.72	1.49	5.37	4.62	1.61	5.16	4.50	1.75	4.75	4.21	1.90	4.41	3.98	2.09
		33°C	5.86	5.86	1.38	5.68	5.68	1.49	5.50	5.50	1.62	5.32	5.32	1.76	4.93	4.93	1.91	4.61	4.61	2.11
	22°C	27°C	6.29	3.33	1.40	6.07	3.25	1.51	5.85	3.17	1.64	5.61	3.08	1.78	5.16	2.87	1.93	4.77	2.71	2.12
		30°C	6.30	4.08	1.40	6.08	4.00	1.51	5.85	3.91	1.64	5.62	3.82	1.78	5.17	3.57	1.93	4.78	3.39	2.13
		33°C	6.31	4.78	1.40	6.09	4.69	1.51	5.87	4.59	1.64	5.64	4.50	1.78	5.19	4.22	1.93	4.81	4.00	2.13
		36°C	6.35	5.41	1.40	6.15	5.30	1.52	5.93	5.19	1.65	5.72	5.07	1.79	5.27	4.75	1.94	4.92	4.48	2.14
520	16°C	21°C	5.39	3.75	1.36	5.19	3.65	1.47	4.99	3.55	1.59	4.79	3.46	1.73	4.39	3.22	1.87	4.05	3.03	2.06
		24°C	5.42	4.55	1.36	5.22	4.44	1.47	5.03	4.34	1.60	4.82	4.22	1.73	4.43	3.94	1.88	4.09	3.71	2.07
		27°C	5.51	5.22	1.37	5.33	5.08	1.48	5.15	4.94	1.60	4.96	4.79	1.74	4.59	4.43	1.89	4.27	4.14	2.08
		30°C	5.78	5.78	1.38	5.61	5.61	1.49	5.44	5.44	1.62	5.26	5.26	1.76	4.87	4.87	1.91	4.55	4.55	2.11
	19°C	24°C	5.93	3.59	1.38	5.72	3.50	1.50	5.50	3.41	1.62	5.28	3.32	1.76	4.84	3.10	1.91	4.47	2.92	2.10
		27°C	5.95	4.16	1.38	5.74	4.06	1.50	5.52	3.97	1.62	5.30	3.87	1.76	4.87	3.62	1.91	4.50	3.42	2.10
		30°C	6.00	5.12	1.39	5.79	5.00	1.50	5.58	4.89	1.63	5.37	4.77	1.76	4.94	4.45	1.91	4.59	4.20	2.11
		33°C	6.13	6.13	1.39	5.95	5.95	1.51	5.77	5.77	1.64	5.58	5.58	1.78	5.17	5.17	1.93	4.83	4.83	2.13
	22°C	27°C	6.51	3.51	1.41	6.28	3.44	1.53	6.04	3.35	1.65	5.80	3.26	1.79	5.33	3.05	1.94	4.92	2.88	2.14
		30°C	6.53	4.33	1.41	6.29	4.25	1.53	6.06	4.16	1.65	5.81	4.06	1.79	5.34	3.81	1.95	4.94	3.61	2.14
		33°C	6.55	5.08	1.41	6.32	4.99	1.53	6.09	4.88	1.66	5.85	4.78	1.80	5.38	4.48	1.95	4.99	4.25	2.15
		36°C	6.61	5.73	1.41	6.40	5.63	1.53	6.18	5.51	1.66	5.96	5.37	1.80	5.50	5.01	1.96	5.13	4.72	2.16

Remark:

AFR: Air flow rate (CFM)

EWB: Entering Wet Bulb Temp. (°C)

EDB: Entering Dry Bulb Temp. (°C)

TC: Total Cooling Capacity (kW)

SC: Sensible Cooling Capacity (kW)

PI: Power Input (kW)

Notes:

1. Ratings shown are net capacities.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Model: FLRN60EXV1 - RN60CXV1**Cooling Mode**

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
490	16°C	21°C	5.53	3.86	1.50	5.33	3.76	1.62	5.13	3.66	1.75	4.93	3.55	1.90	4.52	3.31	2.06	4.18	3.11	2.27
		24°C	5.53	4.62	1.50	5.34	4.52	1.62	5.14	4.41	1.75	4.93	4.30	1.90	4.53	4.02	2.06	4.19	3.79	2.27
		27°C	5.58	5.24	1.50	5.39	5.12	1.62	5.20	5.00	1.76	5.01	4.87	1.91	4.62	4.54	2.07	4.30	4.26	2.28
		30°C	5.75	5.75	1.51	5.58	5.58	1.63	5.41	5.41	1.77	5.24	5.24	1.92	4.86	4.86	2.09	4.54	4.54	2.30
	19°C	24°C	6.09	3.60	1.52	5.88	3.51	1.65	5.67	3.42	1.78	5.44	3.32	1.93	5.00	3.10	2.10	4.62	2.91	2.31
		27°C	6.10	4.12	1.52	5.88	4.03	1.65	5.67	3.94	1.78	5.45	3.84	1.93	5.01	3.60	2.10	4.63	3.41	2.31
		30°C	6.11	5.09	1.52	5.90	4.98	1.65	5.69	4.87	1.79	5.47	4.75	1.94	5.04	4.45	2.10	4.68	4.21	2.32
		33°C	6.18	6.18	1.52	5.98	5.98	1.65	5.79	5.79	1.79	5.59	5.59	1.94	5.17	5.17	2.11	4.83	4.83	2.33
	22°C	27°C	6.71	3.53	1.55	6.47	3.44	1.68	6.24	3.36	1.82	5.99	3.26	1.97	5.51	3.04	2.14	5.10	2.87	2.36
		30°C	6.71	4.30	1.55	6.48	4.21	1.68	6.24	4.11	1.82	5.99	4.01	1.97	5.51	3.76	2.14	5.10	3.56	2.36
		33°C	6.71	5.02	1.55	6.48	4.93	1.68	6.24	4.83	1.82	6.00	4.73	1.97	5.52	4.44	2.14	5.12	4.22	2.36
		36°C	6.73	5.69	1.55	6.51	5.58	1.68	6.28	5.46	1.82	6.06	5.34	1.98	5.58	5.01	2.14	5.19	4.75	2.36
530	16°C	21°C	5.75	4.03	1.51	5.54	3.92	1.63	5.33	3.82	1.77	5.11	3.71	1.92	4.69	3.46	2.08	4.33	3.25	2.29
		24°C	5.77	4.89	1.51	5.56	4.77	1.63	5.35	4.66	1.77	5.13	4.54	1.92	4.72	4.24	2.08	4.36	4.00	2.30
		27°C	5.84	5.55	1.51	5.64	5.42	1.64	5.45	5.28	1.78	5.25	5.12	1.93	4.85	4.76	2.09	4.52	4.45	2.31
		30°C	6.08	6.08	1.53	5.90	5.90	1.65	5.72	5.72	1.79	5.54	5.54	1.95	5.13	5.13	2.11	4.80	4.80	2.33
	19°C	24°C	6.33	3.81	1.53	6.11	3.71	1.66	5.88	3.62	1.80	5.64	3.52	1.95	5.18	3.28	2.12	4.79	3.09	2.33
		27°C	6.34	4.39	1.54	6.12	4.29	1.66	5.89	4.19	1.80	5.65	4.09	1.95	5.19	3.83	2.12	4.80	3.62	2.33
		30°C	6.38	5.41	1.54	6.15	5.29	1.66	5.93	5.18	1.80	5.71	5.05	1.96	5.25	4.72	2.12	4.87	4.46	2.34
		33°C	6.48	6.48	1.54	6.28	6.28	1.67	6.08	6.08	1.81	5.88	5.88	1.97	5.45	5.45	2.14	5.09	5.09	2.36
	22°C	27°C	6.96	3.73	1.56	6.71	3.64	1.69	6.46	3.55	1.84	6.21	3.45	1.99	5.70	3.22	2.16	5.28	3.04	2.38
		30°C	6.97	4.58	1.56	6.72	4.48	1.69	6.47	4.38	1.84	6.21	4.28	1.99	5.71	4.01	2.16	5.28	3.80	2.38
		33°C	6.98	5.36	1.56	6.74	5.26	1.70	6.49	5.15	1.84	6.23	5.04	1.99	5.74	4.73	2.16	5.32	4.49	2.38
		36°C	7.02	6.06	1.57	6.80	5.95	1.70	6.56	5.82	1.84	6.32	5.69	2.00	5.83	5.32	2.17	5.44	5.02	2.39
580	16°C	21°C	5.96	4.20	1.52	5.74	4.09	1.65	5.52	3.99	1.78	5.29	3.87	1.93	4.86	3.61	2.10	4.48	3.40	2.31
		24°C	5.99	5.10	1.52	5.77	4.98	1.65	5.56	4.86	1.79	5.33	4.73	1.94	4.90	4.42	2.10	4.53	4.17	2.31
		27°C	6.09	5.85	1.53	5.89	5.70	1.65	5.69	5.54	1.79	5.49	5.37	1.95	5.07	4.97	2.11	4.73	4.64	2.33
		30°C	6.39	6.39	1.54	6.21	6.21	1.67	6.02	6.02	1.81	5.82	5.82	1.97	5.39	5.39	2.14	5.03	5.03	2.36
	19°C	24°C	6.56	4.03	1.55	6.32	3.93	1.68	6.08	3.83	1.82	5.84	3.73	1.97	5.36	3.47	2.13	4.95	3.28	2.35
		27°C	6.58	4.66	1.55	6.34	4.56	1.68	6.11	4.45	1.82	5.86	4.34	1.97	5.38	4.06	2.14	4.97	3.84	2.35
		30°C	6.64	5.74	1.55	6.40	5.61	1.68	6.17	5.48	1.82	5.93	5.35	1.97	5.46	4.99	2.14	5.07	4.71	2.36
		33°C	6.78	6.78	1.56	6.58	6.58	1.69	6.38	6.38	1.83	6.17	6.17	1.99	5.71	5.71	2.16	5.34	5.34	2.39
	22°C	27°C	7.20	3.94	1.58	6.94	3.86	1.71	6.68	3.76	1.85	6.41	3.66	2.01	5.89	3.42	2.18	5.45	3.23	2.40
		30°C	7.22	4.86	1.58	6.96	4.77	1.71	6.70	4.66	1.85	6.43	4.56	2.01	5.91	4.27	2.18	5.46	4.05	2.40
		33°C	7.24	5.70	1.58	6.99	5.60	1.71	6.73	5.48	1.86	6.47	5.36	2.01	5.95	5.02	2.18	5.51	4.77	2.40
		36°C	7.30	6.43	1.58	7.08	6.31	1.72	6.83	6.18	1.86	6.59	6.02	2.02	6.08	5.62	2.19	5.68	5.29	2.42

Remark:

AFR: Air flow rate (CFM)

EWB: Entering Wet Bulb Temp. (°C)

EDB: Entering Dry Bulb Temp. (°C)

TC: Total Cooling Capacity (kW)

SC: Sensible Cooling Capacity (kW)

PI: Power Input (kW)

Notes:

1. Ratings shown are net capacities.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Model: FLRN60EXV1 - RN60CXY1**Cooling Mode**

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
490	16°C	21°C	6.32	4.41	1.69	6.09	4.30	1.83	5.87	4.18	1.98	5.63	4.06	2.15	5.17	3.78	2.33	4.77	3.56	2.57
		24°C	6.33	5.28	1.69	6.10	5.16	1.83	5.88	5.04	1.99	5.64	4.92	2.15	5.18	4.59	2.34	4.79	4.33	2.57
		27°C	6.38	5.99	1.70	6.16	5.85	1.84	5.95	5.72	1.99	5.72	5.57	2.16	5.28	5.18	2.34	4.91	4.87	2.58
		30°C	6.57	6.57	1.71	6.38	6.38	1.85	6.19	6.19	2.00	5.99	5.99	2.17	5.55	5.55	2.36	5.20	5.20	2.61
	19°C	24°C	6.97	4.12	1.72	6.72	4.02	1.86	6.48	3.91	2.02	6.22	3.80	2.19	5.72	3.54	2.38	5.29	3.33	2.62
		27°C	6.97	4.71	1.72	6.73	4.61	1.86	6.48	4.50	2.02	6.23	4.39	2.19	5.72	4.11	2.38	5.29	3.89	2.62
		30°C	6.98	5.82	1.72	6.74	5.69	1.86	6.50	5.57	2.02	6.26	5.43	2.19	5.76	5.08	2.38	5.35	4.81	2.62
		33°C	7.07	7.07	1.73	6.84	6.84	1.87	6.62	6.62	2.03	6.39	6.39	2.20	5.91	5.91	2.39	5.53	5.53	2.64
	22°C	27°C	7.67	4.03	1.75	7.40	3.93	1.90	7.13	3.84	2.06	6.85	3.73	2.23	6.30	3.48	2.42	5.83	3.28	2.67
		30°C	7.67	4.91	1.75	7.40	4.81	1.90	7.13	4.70	2.06	6.85	4.59	2.23	6.30	4.30	2.42	5.84	4.07	2.67
		33°C	7.67	5.74	1.75	7.41	5.63	1.90	7.14	5.52	2.06	6.86	5.40	2.23	6.31	5.07	2.42	5.85	4.82	2.67
		36°C	7.70	6.51	1.75	7.44	6.38	1.90	7.19	6.24	2.06	6.92	6.11	2.24	6.39	5.73	2.43	5.94	5.43	2.68
530	16°C	21°C	6.57	4.60	1.71	6.34	4.48	1.85	6.10	4.36	2.00	5.85	4.24	2.17	5.36	3.95	2.35	4.95	3.72	2.60
		24°C	6.59	5.59	1.71	6.36	5.45	1.85	6.12	5.32	2.00	5.87	5.19	2.17	5.39	4.84	2.36	4.99	4.57	2.60
		27°C	6.67	6.34	1.71	6.45	6.20	1.85	6.23	6.04	2.01	6.00	5.86	2.18	5.54	5.44	2.37	5.16	5.09	2.61
		30°C	6.95	6.95	1.73	6.75	6.75	1.87	6.54	6.54	2.03	6.33	6.33	2.20	5.87	5.87	2.39	5.48	5.48	2.64
	19°C	24°C	7.24	4.35	1.74	6.98	4.24	1.88	6.72	4.13	2.04	6.45	4.02	2.21	5.92	3.75	2.40	5.47	3.53	2.64
		27°C	7.25	5.01	1.74	7.00	4.90	1.88	6.73	4.79	2.04	6.46	4.68	2.21	5.94	4.37	2.40	5.49	4.14	2.64
		30°C	7.29	6.19	1.74	7.04	6.05	1.88	6.78	5.92	2.04	6.52	5.77	2.21	6.01	5.40	2.40	5.57	5.10	2.65
		33°C	7.41	7.41	1.75	7.18	7.18	1.89	6.96	6.96	2.05	6.72	6.72	2.23	6.23	6.23	2.42	5.82	5.82	2.67
	22°C	27°C	7.96	4.26	1.77	7.68	4.16	1.92	7.39	4.06	2.08	7.10	3.95	2.25	6.52	3.68	2.44	6.03	3.47	2.69
		30°C	7.97	5.23	1.77	7.69	5.12	1.92	7.40	5.01	2.08	7.11	4.89	2.25	6.53	4.58	2.44	6.04	4.35	2.69
		33°C	7.98	6.13	1.77	7.70	6.01	1.92	7.42	5.89	2.08	7.13	5.76	2.26	6.56	5.41	2.45	6.08	5.13	2.70
		36°C	8.03	6.93	1.77	7.77	6.80	1.92	7.50	6.66	2.09	7.23	6.50	2.26	6.67	6.08	2.46	6.22	5.74	2.71
580	16°C	21°C	6.82	4.80	1.72	6.57	4.68	1.86	6.31	4.56	2.02	6.05	4.43	2.19	5.55	4.12	2.37	5.12	3.88	2.62
		24°C	6.85	5.83	1.73	6.60	5.70	1.87	6.35	5.56	2.02	6.10	5.41	2.19	5.60	5.05	2.38	5.17	4.76	2.62
		27°C	6.96	6.69	1.73	6.73	6.51	1.87	6.51	6.33	2.03	6.27	6.14	2.20	5.80	5.68	2.39	5.40	5.31	2.64
		30°C	7.31	7.31	1.75	7.10	7.10	1.89	6.88	6.88	2.05	6.65	6.65	2.23	6.16	6.16	2.42	5.75	5.75	2.67
	19°C	24°C	7.50	4.61	1.75	7.23	4.49	1.90	6.96	4.38	2.05	6.67	4.26	2.23	6.12	3.97	2.42	5.65	3.74	2.66
		27°C	7.52	5.33	1.75	7.25	5.21	1.90	6.98	5.08	2.06	6.70	4.96	2.23	6.15	4.64	2.42	5.69	4.39	2.66
		30°C	7.59	6.56	1.76	7.32	6.41	1.90	7.06	6.27	2.06	6.79	6.11	2.24	6.25	5.71	2.43	5.80	5.38	2.67
		33°C	7.75	7.75	1.76	7.52	7.52	1.91	7.29	7.29	2.08	7.05	7.05	2.25	6.53	6.53	2.45	6.11	6.11	2.70
	22°C	27°C	8.23	4.50	1.79	7.94	4.41	1.93	7.64	4.30	2.10	7.33	4.18	2.27	6.74	3.90	2.46	6.23	3.69	2.71
		30°C	8.25	5.55	1.79	7.96	5.45	1.93	7.66	5.33	2.10	7.35	5.21	2.27	6.75	4.88	2.47	6.24	4.62	2.72
		33°C	8.28	6.51	1.79	7.99	6.40	1.94	7.70	6.26	2.10	7.40	6.12	2.28	6.80	5.74	2.47	6.30	5.45	2.72
		36°C	8.35	7.35	1.79	8.09	7.22	1.94	7.81	7.06	2.11	7.53	6.88	2.29	6.96	6.42	2.48	6.49	6.04	2.74

Remark:

AFR: Air flow rate (CFM)

EWB: Entering Wet Bulb Temp. (°C)

EDB: Entering Dry Bulb Temp. (°C)

TC: Total Cooling Capacity (kW)

SC: Sensible Cooling Capacity (kW)

PI: Power Input (kW)

Notes:

1. Ratings shown are net capacities.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Model: FLRN71EXV1 - RR71CXV1**Cooling Mode**

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
460	16°C	21°C	7.45	4.99	2.09	7.18	4.86	2.26	6.92	4.73	2.45	6.64	4.59	2.66	6.10	4.27	2.88	5.63	4.02	3.18
		24°C	7.46	5.97	2.09	7.19	5.84	2.26	6.93	5.70	2.45	6.65	5.56	2.66	6.11	5.19	2.88	5.65	4.90	3.18
		27°C	7.52	6.77	2.10	7.27	6.62	2.27	7.01	6.46	2.46	6.75	6.30	2.66	6.23	5.86	2.89	5.79	5.50	3.19
		30°C	7.75	7.75	2.11	7.53	7.53	2.28	7.30	7.30	2.47	7.06	7.06	2.68	6.55	6.55	2.92	6.12	6.12	3.22
	19°C	24°C	8.22	4.66	2.12	7.93	4.54	2.30	7.64	4.42	2.49	7.33	4.29	2.70	6.74	4.00	2.93	6.23	3.77	3.23
		27°C	8.22	5.33	2.13	7.93	5.21	2.30	7.64	5.09	2.49	7.34	4.97	2.70	6.75	4.65	2.93	6.24	4.40	3.23
		30°C	8.23	6.58	2.13	7.95	6.44	2.30	7.67	6.29	2.49	7.38	6.14	2.71	6.79	5.74	2.94	6.30	5.44	3.24
		33°C	8.33	8.33	2.13	8.06	8.06	2.31	7.80	7.80	2.50	7.53	7.53	2.72	6.97	6.97	2.95	6.52	6.52	3.26
	22°C	27°C	9.04	4.56	2.16	8.73	4.45	2.34	8.41	4.34	2.54	8.08	4.22	2.76	7.43	3.93	2.99	6.88	3.71	3.29
		30°C	9.04	5.56	2.16	8.73	5.44	2.34	8.41	5.31	2.54	8.08	5.19	2.76	7.43	4.86	2.99	6.88	4.61	3.29
		33°C	9.05	6.49	2.16	8.73	6.37	2.34	8.41	6.24	2.54	8.09	6.11	2.76	7.44	5.74	2.99	6.90	5.45	3.30
		36°C	9.08	7.36	2.17	8.78	7.21	2.35	8.47	7.06	2.55	8.16	6.90	2.76	7.53	6.47	3.00	7.00	6.14	3.30
560	16°C	21°C	7.75	5.20	2.11	7.47	5.07	2.28	7.19	4.94	2.47	6.89	4.80	2.68	6.33	4.47	2.91	5.84	4.20	3.20
		24°C	7.77	6.32	2.11	7.49	6.17	2.28	7.21	6.02	2.47	6.92	5.87	2.68	6.36	5.48	2.91	5.88	5.17	3.21
		27°C	7.87	7.17	2.12	7.60	7.01	2.29	7.34	6.83	2.48	7.08	6.62	2.69	6.53	6.15	2.92	6.09	5.76	3.23
		30°C	8.20	8.20	2.13	7.96	7.96	2.31	7.72	7.72	2.50	7.46	7.46	2.72	6.92	6.92	2.95	6.46	6.46	3.26
	19°C	24°C	8.54	4.92	2.14	8.23	4.80	2.32	7.93	4.67	2.52	7.61	4.55	2.73	6.99	4.24	2.96	6.45	3.99	3.26
		27°C	8.55	5.67	2.15	8.25	5.55	2.32	7.94	5.42	2.52	7.62	5.29	2.73	7.00	4.95	2.96	6.47	4.68	3.26
		30°C	8.59	7.00	2.15	8.30	6.84	2.33	8.00	6.69	2.52	7.69	6.53	2.73	7.08	6.10	2.97	6.57	5.77	3.27
		33°C	8.74	8.74	2.16	8.47	8.47	2.34	8.20	8.20	2.53	7.93	7.93	2.75	7.34	7.34	2.99	6.87	6.87	3.30
	22°C	27°C	9.38	4.82	2.18	9.05	4.71	2.37	8.71	4.59	2.57	8.37	4.46	2.78	7.69	4.16	3.02	7.11	3.93	3.32
		30°C	9.39	5.92	2.19	9.06	5.79	2.37	8.72	5.66	2.57	8.38	5.53	2.78	7.70	5.18	3.02	7.12	4.92	3.32
		33°C	9.41	6.93	2.19	9.08	6.80	2.37	8.75	6.66	2.57	8.40	6.52	2.79	7.73	6.11	3.02	7.17	5.81	3.33
		36°C	9.47	7.84	2.19	9.16	7.69	2.37	8.84	7.53	2.57	8.52	7.35	2.79	7.86	6.88	3.03	7.33	6.49	3.34
640	16°C	21°C	8.04	5.43	2.13	7.74	5.29	2.30	7.45	5.15	2.49	7.14	5.01	2.70	6.55	4.67	2.93	6.03	4.39	3.23
		24°C	8.08	6.60	2.13	7.79	6.44	2.30	7.49	6.28	2.50	7.19	6.12	2.71	6.60	5.71	2.93	6.10	5.38	3.23
		27°C	8.21	7.56	2.14	7.94	7.37	2.31	7.67	7.16	2.51	7.40	6.94	2.72	6.84	6.43	2.95	6.37	6.00	3.26
		30°C	8.62	8.62	2.15	8.37	8.37	2.33	8.11	8.11	2.53	7.84	7.84	2.75	7.26	7.26	2.99	6.78	6.78	3.30
	19°C	24°C	8.85	5.21	2.16	8.53	5.08	2.34	8.20	4.95	2.54	7.87	4.82	2.75	7.22	4.49	2.98	6.67	4.23	3.29
		27°C	8.87	6.03	2.16	8.55	5.89	2.34	8.23	5.75	2.54	7.90	5.61	2.75	7.25	5.25	2.99	6.70	4.96	3.29
		30°C	8.95	7.42	2.17	8.63	7.25	2.35	8.32	7.09	2.54	8.00	6.91	2.76	7.37	6.45	2.99	6.84	6.08	3.30
		33°C	9.14	9.14	2.18	8.87	8.87	2.36	8.60	8.60	2.56	8.32	8.32	2.78	7.70	7.70	3.02	7.20	7.20	3.34
	22°C	27°C	9.71	5.10	2.20	9.36	4.98	2.39	9.01	4.86	2.59	8.65	4.73	2.81	7.94	4.41	3.04	7.34	4.17	3.35
		30°C	9.73	6.28	2.20	9.38	6.16	2.39	9.03	6.03	2.59	8.67	5.89	2.81	7.96	5.52	3.04	7.36	5.23	3.35
		33°C	9.76	7.36	2.21	9.42	7.23	2.39	9.08	7.08	2.59	8.72	6.92	2.81	8.02	6.49	3.05	7.43	6.16	3.36
		36°C	9.85	8.31	2.21	9.54	8.16	2.40	9.21	7.98	2.60	8.88	7.78	2.82	8.20	7.26	3.06	7.65	6.84	3.38

Remark:

AFR: Air flow rate (CFM)

EWB: Entering Wet Bulb Temp. (°C)

EDB: Entering Dry Bulb Temp. (°C)

TC: Total Cooling Capacity (kW)

SC: Sensible Cooling Capacity (kW)

PI: Power Input (kW)

Notes:

1. Ratings shown are net capacities.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Model: FLRN71EXV1 - RR71CXY1

Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
460	16°C	21°C	7.18	4.81	2.06	6.93	4.69	2.23	6.67	4.56	2.42	6.40	4.43	2.62	5.88	4.12	2.84	5.43	3.88	3.13
		24°C	7.19	5.76	2.06	6.94	5.63	2.23	6.68	5.50	2.42	6.41	5.36	2.62	5.89	5.01	2.84	5.45	4.72	3.13
		27°C	7.25	6.53	2.07	7.01	6.38	2.24	6.76	6.23	2.42	6.51	6.07	2.63	6.00	5.65	2.85	5.59	5.31	3.15
		30°C	7.47	7.47	2.08	7.26	7.26	2.25	7.04	7.04	2.44	6.81	6.81	2.65	6.31	6.31	2.88	5.91	5.91	3.18
	19°C	24°C	7.92	4.49	2.10	7.65	4.38	2.27	7.37	4.26	2.46	7.07	4.14	2.67	6.50	3.86	2.89	6.01	3.63	3.19
		27°C	7.93	5.14	2.10	7.65	5.02	2.27	7.37	4.91	2.46	7.08	4.79	2.67	6.51	4.48	2.89	6.02	4.24	3.19
		30°C	7.94	6.34	2.10	7.67	6.21	2.27	7.40	6.07	2.46	7.12	5.92	2.67	6.55	5.54	2.90	6.08	5.24	3.19
		33°C	8.04	8.04	2.10	7.77	7.77	2.28	7.52	7.52	2.47	7.27	7.27	2.68	6.72	6.72	2.91	6.28	6.28	3.21
	22°C	27°C	8.72	4.40	2.13	8.42	4.29	2.31	8.11	4.18	2.51	7.79	4.07	2.72	7.17	3.79	2.95	6.63	3.57	3.25
		30°C	8.72	5.36	2.13	8.42	5.24	2.31	8.11	5.12	2.51	7.79	5.00	2.72	7.17	4.68	2.95	6.64	4.44	3.25
		33°C	8.73	6.26	2.13	8.42	6.14	2.31	8.12	6.02	2.51	7.80	5.89	2.72	7.18	5.53	2.95	6.65	5.25	3.25
		36°C	8.75	7.10	2.14	8.46	6.95	2.31	8.17	6.81	2.51	7.87	6.66	2.72	7.26	6.24	2.96	6.75	5.92	3.26
560	16°C	21°C	7.48	5.02	2.08	7.21	4.89	2.25	6.93	4.76	2.44	6.65	4.63	2.64	6.10	4.31	2.87	5.63	4.05	3.16
		24°C	7.50	6.09	2.08	7.23	5.95	2.25	6.96	5.81	2.44	6.68	5.66	2.65	6.13	5.28	2.87	5.67	4.98	3.16
		27°C	7.59	6.92	2.09	7.33	6.76	2.26	7.08	6.58	2.45	6.83	6.39	2.66	6.30	5.93	2.88	5.87	5.55	3.18
		30°C	7.90	7.90	2.10	7.68	7.68	2.28	7.44	7.44	2.47	7.20	7.20	2.68	6.67	6.67	2.91	6.24	6.24	3.22
	19°C	24°C	8.24	4.75	2.12	7.94	4.63	2.29	7.64	4.51	2.48	7.34	4.38	2.69	6.74	4.09	2.92	6.22	3.85	3.21
		27°C	8.25	5.47	2.12	7.96	5.35	2.29	7.66	5.23	2.48	7.35	5.10	2.69	6.75	4.77	2.92	6.24	4.52	3.22
		30°C	8.29	6.75	2.12	8.00	6.60	2.29	7.71	6.45	2.49	7.42	6.29	2.70	6.83	5.89	2.93	6.34	5.56	3.23
		33°C	8.43	8.43	2.13	8.17	8.17	2.30	7.91	7.91	2.50	7.65	7.65	2.71	7.08	7.08	2.95	6.62	6.62	3.25
	22°C	27°C	9.05	4.65	2.15	8.73	4.54	2.33	8.41	4.42	2.53	8.07	4.31	2.74	7.42	4.02	2.98	6.86	3.79	3.28
		30°C	9.06	5.70	2.16	8.74	5.59	2.33	8.41	5.46	2.53	8.08	5.33	2.74	7.43	5.00	2.98	6.87	4.74	3.28
		33°C	9.08	6.68	2.16	8.76	6.56	2.34	8.44	6.42	2.53	8.11	6.29	2.75	7.46	5.90	2.98	6.91	5.60	3.28
		36°C	9.13	7.56	2.16	8.84	7.41	2.34	8.53	7.26	2.54	8.22	7.09	2.75	7.58	6.63	2.99	7.07	6.26	3.30
640	16°C	21°C	7.75	5.24	2.10	7.47	5.10	2.27	7.18	4.97	2.46	6.88	4.83	2.66	6.31	4.50	2.89	5.82	4.23	3.18
		24°C	7.79	6.36	2.10	7.51	6.21	2.27	7.23	6.06	2.46	6.94	5.90	2.67	6.37	5.51	2.89	5.88	5.19	3.19
		27°C	7.92	7.29	2.11	7.66	7.10	2.28	7.40	6.91	2.47	7.14	6.69	2.68	6.59	6.20	2.91	6.14	5.79	3.21
		30°C	8.31	8.31	2.13	8.07	8.07	2.30	7.82	7.82	2.50	7.57	7.57	2.71	7.01	7.01	2.95	6.54	6.54	3.25
	19°C	24°C	8.53	5.02	2.13	8.22	4.90	2.31	7.91	4.77	2.50	7.59	4.64	2.71	6.96	4.33	2.94	6.43	4.08	3.24
		27°C	8.56	5.81	2.13	8.25	5.68	2.31	7.94	5.55	2.50	7.62	5.41	2.72	7.00	5.06	2.94	6.47	4.79	3.24
		30°C	8.63	7.15	2.14	8.32	7.00	2.32	8.02	6.84	2.51	7.72	6.66	2.72	7.11	6.22	2.95	6.60	5.87	3.26
		33°C	8.82	8.82	2.15	8.56	8.56	2.33	8.29	8.29	2.53	8.02	8.02	2.74	7.43	7.43	2.98	6.95	6.95	3.29
	22°C	27°C	9.36	4.91	2.17	9.03	4.81	2.35	8.69	4.69	2.55	8.34	4.56	2.77	7.66	4.26	3.00	7.08	4.02	3.30
		30°C	9.38	6.06	2.17	9.05	5.94	2.36	8.71	5.81	2.55	8.36	5.68	2.77	7.68	5.32	3.00	7.10	5.04	3.31
		33°C	9.41	7.10	2.18	9.09	6.98	2.36	8.75	6.83	2.56	8.41	6.68	2.77	7.74	6.26	3.01	7.17	5.94	3.31
		36°C	9.50	8.02	2.18	9.20	7.87	2.37	8.88	7.70	2.57	8.56	7.51	2.78	7.91	7.00	3.02	7.38	6.59	3.33

Remark:

AFR: Air flow rate (CFM)

EWB: Entering Wet Bulb Temp. (°C)

EDB: Entering Dry Bulb Temp. (°C)

TC: Total Cooling Capacity (kW)

SC: Sensible Cooling Capacity (kW)

PI: Power Input (kW)

Notes:

1. Ratings shown are net capacities.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Model: FLRN90EXV1 - RR90DXV1**Cooling Mode**

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
669	16°C	21°C	8.49	6.01	2.17	8.19	5.85	2.34	7.88	5.69	2.54	7.57	5.53	2.75	6.95	5.14	2.98	6.41	4.84	3.29
		24°C	8.50	7.19	2.17	8.20	7.03	2.34	7.89	6.86	2.54	7.58	6.69	2.75	6.96	6.25	2.99	6.44	5.90	3.29
		27°C	8.57	8.15	2.17	8.28	7.97	2.35	7.99	7.78	2.54	7.69	7.58	2.76	7.09	7.06	2.99	6.60	6.60	3.30
		30°C	8.83	8.83	2.18	8.58	8.58	2.36	8.32	8.32	2.56	8.05	8.05	2.78	7.46	7.46	3.02	6.98	6.98	3.33
	19°C	24°C	9.36	5.61	2.20	9.03	5.46	2.38	8.70	5.32	2.58	8.36	5.17	2.80	7.68	4.81	3.04	7.10	4.53	3.35
		27°C	9.37	6.42	2.20	9.04	6.27	2.38	8.71	6.13	2.58	8.36	5.98	2.80	7.69	5.59	3.04	7.11	5.30	3.35
		30°C	9.38	7.92	2.20	9.06	7.75	2.38	8.74	7.58	2.58	8.41	7.39	2.80	7.74	6.91	3.04	7.18	6.54	3.35
		33°C	9.49	9.49	2.21	9.18	9.18	2.39	8.89	8.89	2.59	8.58	8.58	2.81	7.94	7.94	3.05	7.42	7.42	3.37
	22°C	27°C	10.30	5.49	2.24	9.94	5.36	2.43	9.58	5.22	2.63	9.21	5.08	2.85	8.47	4.73	3.09	7.84	4.46	3.41
		30°C	10.30	6.69	2.24	9.95	6.55	2.43	9.58	6.40	2.63	9.21	6.24	2.85	8.47	5.85	3.10	7.84	5.54	3.41
		33°C	10.31	7.81	2.24	9.95	7.66	2.43	9.59	7.51	2.63	9.21	7.35	2.85	8.48	6.90	3.10	7.86	6.56	3.41
		36°C	10.34	8.86	2.24	10.00	8.68	2.43	9.65	8.50	2.64	9.30	8.31	2.86	8.58	7.79	3.10	7.98	7.39	3.42
753	16°C	21°C	8.83	6.26	2.18	8.51	6.10	2.36	8.19	5.94	2.56	7.85	5.77	2.77	7.21	5.37	3.01	6.65	5.06	3.32
		24°C	8.86	7.60	2.19	8.54	7.42	2.36	8.22	7.25	2.56	7.89	7.06	2.78	7.25	6.59	3.01	6.70	6.22	3.32
		27°C	8.96	8.63	2.19	8.66	8.43	2.37	8.36	8.22	2.57	8.06	7.97	2.79	7.44	7.40	3.03	6.93	6.93	3.34
		30°C	9.34	9.34	2.21	9.07	9.07	2.39	8.79	8.79	2.59	8.50	8.50	2.81	7.88	7.88	3.06	7.37	7.37	3.38
	19°C	24°C	9.73	5.92	2.22	9.38	5.78	2.40	9.03	5.63	2.60	8.67	5.47	2.82	7.96	5.10	3.06	7.35	4.80	3.37
		27°C	9.74	6.82	2.22	9.40	6.67	2.40	9.05	6.52	2.61	8.68	6.37	2.83	7.98	5.95	3.06	7.37	5.64	3.38
		30°C	9.79	8.42	2.22	9.45	8.24	2.41	9.11	8.05	2.61	8.76	7.85	2.83	8.07	7.34	3.07	7.49	6.94	3.39
		33°C	9.95	9.95	2.23	9.65	9.65	2.42	9.34	9.34	2.62	9.03	9.03	2.85	8.37	8.37	3.09	7.82	7.82	3.42
	22°C	27°C	10.69	5.80	2.26	10.31	5.66	2.45	9.93	5.52	2.66	9.53	5.37	2.88	8.76	5.01	3.12	8.10	4.73	3.44
		30°C	10.70	7.12	2.26	10.32	6.97	2.45	9.94	6.81	2.66	9.54	6.66	2.88	8.77	6.23	3.12	8.11	5.92	3.44
		33°C	10.72	8.34	2.26	10.35	8.18	2.45	9.97	8.01	2.66	9.58	7.84	2.88	8.81	7.36	3.13	8.17	6.99	3.45
		36°C	10.79	9.43	2.27	10.44	9.25	2.46	10.07	9.06	2.66	9.71	8.85	2.89	8.96	8.28	3.14	8.35	7.81	3.46
840	16°C	21°C	9.16	6.53	2.20	8.82	6.37	2.38	8.48	6.20	2.58	8.13	6.03	2.80	7.46	5.61	3.03	6.87	5.28	3.34
		24°C	9.20	7.94	2.21	8.87	7.75	2.39	8.54	7.56	2.58	8.19	7.36	2.80	7.52	6.87	3.04	6.95	6.48	3.35
		27°C	9.35	9.10	2.21	9.05	8.86	2.39	8.74	8.62	2.59	8.43	8.35	2.82	7.79	7.73	3.06	7.26	7.22	3.37
		30°C	9.82	9.82	2.23	9.53	9.53	2.42	9.24	9.24	2.62	8.94	8.94	2.85	8.27	8.27	3.09	7.73	7.73	3.41
	19°C	24°C	10.08	6.27	2.24	9.71	6.11	2.42	9.34	5.96	2.63	8.96	5.79	2.85	8.23	5.40	3.09	7.59	5.09	3.40
		27°C	10.11	7.25	2.24	9.74	7.09	2.43	9.38	6.92	2.63	9.00	6.75	2.85	8.26	6.31	3.09	7.64	5.97	3.41
		30°C	10.19	8.92	2.25	9.83	8.73	2.43	9.48	8.53	2.63	9.12	8.32	2.86	8.39	7.77	3.10	7.79	7.32	3.42
		33°C	10.41	10.41	2.26	10.11	10.11	2.44	9.80	9.80	2.65	9.47	9.47	2.88	8.78	8.78	3.13	8.21	8.21	3.45
	22°C	27°C	11.06	6.13	2.28	10.67	6.00	2.47	10.26	5.85	2.68	9.85	5.69	2.90	9.05	5.31	3.15	8.36	5.02	3.47
		30°C	11.08	7.56	2.28	10.69	7.42	2.47	10.28	7.25	2.68	9.87	7.09	2.91	9.07	6.64	3.15	8.39	6.29	3.47
		33°C	11.12	8.86	2.28	10.74	8.70	2.48	10.34	8.52	2.68	9.93	8.33	2.91	9.14	7.81	3.16	8.47	7.41	3.48
		36°C	11.22	10.00	2.29	10.87	9.82	2.48	10.49	9.60	2.69	10.11	9.37	2.92	9.35	8.74	3.17	8.72	8.22	3.50

Remark:

AFR: Air flow rate (CFM)

EWB: Entering Wet Bulb Temp. (°C)

EDB: Entering Dry Bulb Temp. (°C)

TC: Total Cooling Capacity (kW)

SC: Sensible Cooling Capacity (kW)

PI: Power Input (kW)

Notes:

1. Ratings shown are net capacities.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Model: FLRN90EXV1 - RR90DXY1**Cooling Mode**

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
669	16°C	21°C	8.49	6.01	2.05	8.19	5.85	2.22	7.88	5.69	2.41	7.57	5.53	2.61	6.95	5.14	2.83	6.41	4.84	3.12
		24°C	8.50	7.19	2.05	8.20	7.03	2.22	7.89	6.86	2.41	7.58	6.69	2.61	6.96	6.25	2.83	6.44	5.90	3.12
		27°C	8.57	8.15	2.06	8.28	7.97	2.23	7.99	7.78	2.41	7.69	7.58	2.62	7.09	7.06	2.84	6.60	6.60	3.13
		30°C	8.83	8.83	2.07	8.58	8.58	2.24	8.32	8.32	2.43	8.05	8.05	2.64	7.46	7.46	2.86	6.98	6.98	3.16
	19°C	24°C	9.36	5.61	2.09	9.03	5.46	2.26	8.70	5.32	2.45	8.36	5.17	2.65	7.68	4.81	2.88	7.10	4.53	3.17
		27°C	9.37	6.42	2.09	9.04	6.27	2.26	8.71	6.13	2.45	8.36	5.98	2.65	7.69	5.59	2.88	7.11	5.30	3.17
		30°C	9.38	7.92	2.09	9.06	7.75	2.26	8.74	7.58	2.45	8.41	7.39	2.66	7.74	6.91	2.88	7.18	6.54	3.18
		33°C	9.49	9.49	2.09	9.18	9.18	2.27	8.89	8.89	2.46	8.58	8.58	2.67	7.94	7.94	2.90	7.42	7.42	3.20
	22°C	27°C	10.30	5.49	2.12	9.94	5.36	2.30	9.58	5.22	2.49	9.21	5.08	2.71	8.47	4.73	2.94	7.84	4.46	3.23
		30°C	10.30	6.69	2.12	9.95	6.55	2.30	9.58	6.40	2.49	9.21	6.24	2.71	8.47	5.85	2.94	7.84	5.54	3.23
		33°C	10.31	7.81	2.12	9.95	7.66	2.30	9.59	7.51	2.50	9.21	7.35	2.71	8.48	6.90	2.94	7.86	6.56	3.24
		36°C	10.34	8.86	2.13	10.00	8.68	2.30	9.65	8.50	2.50	9.30	8.31	2.71	8.58	7.79	2.94	7.98	7.39	3.24
753	16°C	21°C	8.83	6.26	2.07	8.51	6.10	2.24	8.19	5.94	2.43	7.85	5.77	2.63	7.21	5.37	2.85	6.65	5.06	3.15
		24°C	8.86	7.60	2.07	8.54	7.42	2.24	8.22	7.25	2.43	7.89	7.06	2.63	7.25	6.59	2.86	6.70	6.22	3.15
		27°C	8.96	8.63	2.08	8.66	8.43	2.25	8.36	8.22	2.44	8.06	7.97	2.64	7.44	7.40	2.87	6.93	6.93	3.17
		30°C	9.34	9.34	2.09	9.07	9.07	2.27	8.79	8.79	2.46	8.50	8.50	2.67	7.88	7.88	2.90	7.37	7.37	3.20
	19°C	24°C	9.73	5.92	2.11	9.38	5.78	2.28	9.03	5.63	2.47	8.67	5.47	2.68	7.96	5.10	2.90	7.35	4.80	3.20
		27°C	9.74	6.82	2.11	9.40	6.67	2.28	9.05	6.52	2.47	8.68	6.37	2.68	7.98	5.95	2.91	7.37	5.64	3.20
		30°C	9.79	8.42	2.11	9.45	8.24	2.28	9.11	8.05	2.47	8.76	7.85	2.68	8.07	7.34	2.91	7.49	6.94	3.21
		33°C	9.95	9.95	2.12	9.65	9.65	2.29	9.34	9.34	2.49	9.03	9.03	2.70	8.37	8.37	2.93	7.82	7.82	3.24
	22°C	27°C	10.69	5.80	2.15	10.31	5.66	2.32	9.93	5.52	2.52	9.53	5.37	2.73	8.76	5.01	2.96	8.10	4.73	3.26
		30°C	10.70	7.12	2.15	10.32	6.97	2.32	9.94	6.81	2.52	9.54	6.66	2.73	8.77	6.23	2.96	8.11	5.92	3.26
		33°C	10.72	8.34	2.15	10.35	8.18	2.33	9.97	8.01	2.52	9.58	7.84	2.73	8.81	7.36	2.97	8.17	6.99	3.27
		36°C	10.79	9.43	2.15	10.44	9.25	2.33	10.07	9.06	2.53	9.71	8.85	2.74	8.96	8.28	2.98	8.35	7.81	3.28
840	16°C	21°C	9.16	6.53	2.09	8.82	6.37	2.26	8.48	6.20	2.45	8.13	6.03	2.65	7.46	5.61	2.88	6.87	5.28	3.17
		24°C	9.20	7.94	2.09	8.87	7.75	2.26	8.54	7.56	2.45	8.19	7.36	2.66	7.52	6.87	2.88	6.95	6.48	3.18
		27°C	9.35	9.10	2.10	9.05	8.86	2.27	8.74	8.62	2.46	8.43	8.35	2.67	7.79	7.73	2.90	7.26	7.22	3.20
		30°C	9.82	9.82	2.12	9.53	9.53	2.29	9.24	9.24	2.49	8.94	8.94	2.70	8.27	8.27	2.93	7.73	7.73	3.24
	19°C	24°C	10.08	6.27	2.12	9.71	6.11	2.30	9.34	5.96	2.49	8.96	5.79	2.70	8.23	5.40	2.93	7.59	5.09	3.23
		27°C	10.11	7.25	2.12	9.74	7.09	2.30	9.38	6.92	2.49	9.00	6.75	2.70	8.26	6.31	2.93	7.64	5.97	3.23
		30°C	10.19	8.92	2.13	9.83	8.73	2.31	9.48	8.53	2.50	9.12	8.32	2.71	8.39	7.77	2.94	7.79	7.32	3.24
		33°C	10.41	10.41	2.14	10.11	10.11	2.32	9.80	9.80	2.52	9.47	9.47	2.73	8.78	8.78	2.97	8.21	8.21	3.28
	22°C	27°C	11.06	6.13	2.16	10.67	6.00	2.34	10.26	5.85	2.54	9.85	5.69	2.75	9.05	5.31	2.99	8.36	5.02	3.29
		30°C	11.08	7.56	2.16	10.69	7.42	2.34	10.28	7.25	2.54	9.87	7.09	2.76	9.07	6.64	2.99	8.39	6.29	3.29
		33°C	11.12	8.86	2.17	10.74	8.70	2.35	10.34	8.52	2.55	9.93	8.33	2.76	9.14	7.81	2.99	8.47	7.41	3.30
		36°C	11.22	10.00	2.17	10.87	9.82	2.35	10.49	9.60	2.55	10.11	9.37	2.77	9.35	8.74	3.01	8.72	8.22	3.32

Remark:

AFR: Air flow rate (CFM)

EWB: Entering Wet Bulb Temp. (°C)

EDB: Entering Dry Bulb Temp. (°C)

TC: Total Cooling Capacity (kW)

SC: Sensible Cooling Capacity (kW)

PI: Power Input (kW)

Notes:

1. Ratings shown are net capacities.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Performance Data

Model: FLRN100EXV1 - RR100DXV1

Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
877	16°C	21°C	10.47	7.21	3.06	10.10	7.02	3.31	9.72	6.83	3.58	9.33	6.63	3.88	8.57	6.17	4.21	7.91	5.81	4.65
		24°C	10.48	8.63	3.06	10.11	8.43	3.31	9.73	8.24	3.58	9.35	8.03	3.89	8.59	7.50	4.22	7.94	7.08	4.65
		27°C	10.56	9.78	3.06	10.21	9.56	3.31	9.85	9.34	3.59	9.48	9.10	3.89	8.75	8.47	4.23	8.14	7.95	4.66
		30°C	10.89	10.89	3.08	10.58	10.58	3.33	10.26	10.26	3.61	9.93	9.93	3.92	9.20	9.20	4.26	8.61	8.61	4.71
	19°C	24°C	11.55	6.73	3.11	11.14	6.56	3.36	10.73	6.38	3.64	10.31	6.20	3.95	9.47	5.78	4.29	8.76	5.44	4.73
		27°C	11.55	7.70	3.11	11.15	7.52	3.36	10.74	7.35	3.64	10.32	7.17	3.95	9.48	6.71	4.29	8.77	6.36	4.73
		30°C	11.57	9.50	3.11	11.17	9.30	3.37	10.78	9.09	3.65	10.37	8.87	3.96	9.55	8.30	4.29	8.86	7.85	4.73
		33°C	11.71	11.71	3.12	11.33	11.33	3.37	10.96	10.96	3.66	10.59	10.59	3.97	9.79	9.79	4.31	9.16	9.16	4.76
	22°C	27°C	12.70	6.59	3.16	12.26	6.43	3.43	11.82	6.27	3.71	11.35	6.09	4.03	10.44	5.68	4.37	9.66	5.35	4.82
		30°C	12.71	8.03	3.16	12.27	7.85	3.43	11.82	7.68	3.72	11.36	7.49	4.03	10.44	7.01	4.37	9.67	6.65	4.82
		33°C	12.71	9.37	3.16	12.27	9.19	3.43	11.83	9.01	3.72	11.36	8.83	4.03	10.46	8.29	4.37	9.69	7.87	4.82
		36°C	12.75	10.63	3.17	12.33	10.42	3.43	11.90	10.20	3.72	11.47	9.97	4.04	10.58	9.35	4.38	9.84	8.87	4.83
983	16°C	21°C	10.89	7.51	3.09	10.50	7.32	3.34	10.10	7.13	3.61	9.69	6.93	3.92	8.89	6.45	4.25	8.20	6.07	4.68
		24°C	10.92	9.12	3.09	10.53	8.91	3.34	10.14	8.69	3.62	9.73	8.48	3.92	8.94	7.91	4.25	8.26	7.46	4.69
		27°C	11.05	10.36	3.09	10.68	10.12	3.35	10.31	9.86	3.63	9.94	9.56	3.94	9.18	8.88	4.27	8.55	8.31	4.72
		30°C	11.52	11.52	3.12	11.18	11.18	3.38	10.84	10.84	3.66	10.49	10.49	3.97	9.72	9.72	4.32	9.08	9.08	4.77
	19°C	24°C	12.00	7.11	3.14	11.57	6.93	3.39	11.14	6.75	3.68	10.69	6.56	3.99	9.82	6.12	4.33	9.07	5.77	4.77
		27°C	12.02	8.19	3.14	11.59	8.01	3.40	11.16	7.83	3.68	10.71	7.64	3.99	9.84	7.14	4.33	9.10	6.76	4.77
		30°C	12.08	10.10	3.14	11.66	9.88	3.40	11.24	9.66	3.69	10.81	9.43	4.00	9.95	8.81	4.34	9.23	8.33	4.78
		33°C	12.28	12.28	3.15	11.90	11.90	3.41	11.52	11.52	3.70	11.14	11.14	4.02	10.32	10.32	4.37	9.65	9.65	4.82
	22°C	27°C	13.18	6.96	3.19	12.72	6.80	3.46	12.25	6.63	3.75	11.76	6.45	4.07	10.81	6.01	4.41	9.99	5.67	4.86
		30°C	13.20	8.54	3.19	12.73	8.36	3.46	12.26	8.18	3.75	11.77	7.99	4.07	10.82	7.48	4.41	10.01	7.10	4.86
		33°C	13.22	10.01	3.20	12.76	9.82	3.46	12.29	9.62	3.75	11.81	9.41	4.07	10.86	8.83	4.42	10.07	8.38	4.87
		36°C	13.30	11.31	3.20	12.87	11.10	3.47	12.42	10.87	3.76	11.97	10.62	4.08	11.05	9.93	4.43	10.30	9.37	4.89
1100	16°C	21°C	11.29	7.84	3.11	10.88	7.64	3.36	10.46	7.44	3.64	10.03	7.23	3.95	9.20	6.74	4.28	8.48	6.34	4.72
		24°C	11.35	9.53	3.11	10.94	9.30	3.37	10.53	9.07	3.65	10.10	8.84	3.96	9.28	8.25	4.29	8.57	7.77	4.73
		27°C	11.53	10.92	3.12	11.16	10.64	3.38	10.78	10.34	3.66	10.39	10.02	3.98	9.60	9.28	4.32	8.95	8.66	4.76
		30°C	12.11	12.11	3.15	11.76	11.76	3.41	11.40	11.40	3.70	11.02	11.02	4.02	10.20	10.20	4.37	9.53	9.53	4.82
	19°C	24°C	12.43	7.52	3.16	11.98	7.34	3.42	11.52	7.15	3.71	11.06	6.95	4.02	10.15	6.48	4.36	9.37	6.11	4.80
		27°C	12.47	8.70	3.16	12.02	8.50	3.43	11.57	8.30	3.71	11.10	8.10	4.03	10.19	7.58	4.37	9.42	7.17	4.81
		30°C	12.57	10.71	3.17	12.12	10.47	3.43	11.69	10.23	3.72	11.24	9.98	4.03	10.35	9.32	4.38	9.61	8.78	4.83
		33°C	12.84	12.84	3.19	12.47	12.47	3.45	12.08	12.08	3.75	11.68	11.68	4.07	10.82	10.82	4.42	10.12	10.12	4.88
	22°C	27°C	13.64	7.36	3.22	13.15	7.20	3.49	12.66	7.02	3.78	12.15	6.83	4.10	11.16	6.37	4.45	10.31	6.02	4.90
		30°C	13.67	9.07	3.22	13.18	8.90	3.49	12.68	8.70	3.78	12.18	8.51	4.10	11.19	7.97	4.45	10.35	7.55	4.90
		33°C	13.71	10.63	3.23	13.24	10.44	3.50	12.75	10.22	3.79	12.25	10.00	4.11	11.27	9.37	4.46	10.44	8.89	4.91
		36°C	13.84	12.00	3.23	13.40	11.78	3.51	12.94	11.53	3.80	12.47	11.24	4.13	11.53	10.48	4.48	10.75	9.87	4.94

Remark:

AFR: Air flow rate (CFM)

EWB: Entering Wet Bulb Temp. (°C)

EDB: Entering Dry Bulb Temp. (°C)

TC: Total Cooling Capacity (kW)

SC: Sensible Cooling Capacity (kW)

PI: Power Input (kW)

Notes:

1. Ratings shown are net capacities.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Model: FLRN100EXV1 - RR100DXY1**Cooling Mode**

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
877	16°C	21°C	10.75	8.02	2.99	10.37	7.81	3.24	9.98	7.60	3.51	9.58	7.38	3.80	8.80	6.87	4.12	8.12	6.46	4.55
		24°C	10.76	9.60	2.99	10.38	9.38	3.24	10.00	9.16	3.51	9.60	8.93	3.80	8.82	8.34	4.13	8.16	7.87	4.55
		27°C	10.85	10.85	3.00	10.49	10.49	3.24	10.12	10.12	3.51	9.74	9.74	3.81	8.99	8.99	4.14	8.36	8.36	4.57
		30°C	11.18	11.18	3.01	10.86	10.86	3.26	10.53	10.53	3.54	10.19	10.19	3.84	9.45	9.45	4.17	8.84	8.84	4.61
	19°C	24°C	11.86	7.48	3.04	11.44	7.29	3.29	11.02	7.10	3.57	10.59	6.90	3.87	9.73	6.43	4.20	8.99	6.05	4.63
		27°C	11.87	8.56	3.04	11.45	8.37	3.29	11.03	8.18	3.57	10.59	7.98	3.87	9.74	7.46	4.20	9.00	7.07	4.63
		30°C	11.88	10.57	3.04	11.47	10.34	3.29	11.07	10.11	3.57	10.65	9.87	3.87	9.80	9.23	4.20	9.10	8.73	4.63
		33°C	12.02	12.02	3.05	11.63	11.63	3.30	11.26	11.26	3.58	10.87	10.87	3.89	10.06	10.06	4.22	9.40	9.40	4.66
	22°C	27°C	13.04	7.32	3.10	12.59	7.15	3.35	12.13	6.97	3.64	11.66	6.78	3.94	10.72	6.32	4.28	9.93	5.95	4.71
		30°C	13.05	8.93	3.10	12.60	8.74	3.35	12.14	8.54	3.64	11.66	8.33	3.94	10.73	7.80	4.28	9.93	7.40	4.71
		33°C	13.06	10.42	3.10	12.60	10.23	3.35	12.15	10.02	3.64	11.67	9.82	3.95	10.74	9.22	4.28	9.95	8.75	4.72
		36°C	13.10	11.82	3.10	12.67	11.58	3.36	12.23	11.34	3.64	11.78	11.09	3.95	10.86	10.40	4.29	10.10	9.87	4.73
983	16°C	21°C	11.18	8.36	3.02	10.78	8.14	3.27	10.37	7.93	3.54	9.95	7.70	3.84	9.13	7.17	4.16	8.42	6.75	4.59
		24°C	11.22	10.15	3.02	10.81	9.91	3.27	10.41	9.67	3.54	9.99	9.43	3.84	9.18	8.80	4.16	8.48	8.30	4.59
		27°C	11.35	11.35	3.03	10.97	10.97	3.28	10.59	10.59	3.55	10.21	10.21	3.85	9.43	9.43	4.18	8.78	8.78	4.62
		30°C	11.83	11.83	3.05	11.48	11.48	3.30	11.13	11.13	3.58	10.77	10.77	3.89	9.98	9.98	4.23	9.33	9.33	4.67
	19°C	24°C	12.32	7.91	3.07	11.88	7.71	3.32	11.44	7.51	3.60	10.98	7.30	3.90	10.08	6.80	4.23	9.31	6.41	4.67
		27°C	12.34	9.11	3.07	11.90	8.91	3.32	11.46	8.71	3.60	11.00	8.50	3.91	10.10	7.95	4.24	9.34	7.52	4.67
		30°C	12.40	11.24	3.07	11.97	10.99	3.33	11.54	10.75	3.61	11.10	10.48	3.91	10.22	9.80	4.25	9.48	9.26	4.68
		33°C	12.61	12.61	3.08	12.22	12.22	3.34	11.83	11.83	3.63	11.44	11.44	3.94	10.60	10.60	4.28	9.91	9.91	4.72
	22°C	27°C	13.54	7.74	3.13	13.06	7.56	3.39	12.58	7.37	3.67	12.08	7.17	3.98	11.10	6.69	4.32	10.26	6.31	4.76
		30°C	13.55	9.50	3.13	13.08	9.30	3.39	12.59	9.10	3.67	12.09	8.88	3.98	11.11	8.32	4.32	10.28	7.90	4.76
		33°C	13.58	11.13	3.13	13.11	10.92	3.39	12.63	10.70	3.68	12.13	10.47	3.99	11.16	9.82	4.32	10.34	9.32	4.76
		36°C	13.66	12.58	3.13	13.22	12.35	3.40	12.76	12.09	3.68	12.30	11.81	4.00	11.34	11.05	4.34	10.58	10.42	4.79
1100	16°C	21°C	11.60	8.72	3.04	11.17	8.50	3.29	10.74	8.28	3.57	10.30	8.04	3.87	9.45	7.49	4.19	8.71	7.05	4.62
		24°C	11.66	10.60	3.05	11.23	10.35	3.30	10.81	10.09	3.57	10.38	9.83	3.87	9.53	9.17	4.20	8.80	8.65	4.63
		27°C	11.85	11.85	3.06	11.46	11.46	3.31	11.07	11.07	3.59	10.67	10.67	3.89	9.86	9.86	4.23	9.19	9.19	4.66
		30°C	12.44	12.44	3.08	12.08	12.08	3.34	11.70	11.70	3.62	11.32	11.32	3.93	10.48	10.48	4.27	9.79	9.79	4.72
	19°C	24°C	12.77	8.37	3.10	12.30	8.16	3.35	11.84	7.95	3.63	11.35	7.73	3.94	10.42	7.21	4.27	9.62	6.80	4.70
		27°C	12.80	9.68	3.10	12.34	9.46	3.35	11.88	9.24	3.63	11.40	9.01	3.94	10.47	8.43	4.27	9.67	7.97	4.71
		30°C	12.91	11.91	3.10	12.45	11.65	3.36	12.01	11.38	3.64	11.55	11.10	3.95	10.63	10.37	4.29	9.87	9.77	4.73
		33°C	13.19	13.19	3.12	12.80	12.80	3.38	12.41	12.41	3.67	12.00	12.00	3.98	11.12	11.12	4.33	10.40	10.40	4.78
	22°C	27°C	14.01	8.18	3.15	13.51	8.00	3.42	13.00	7.80	3.70	12.48	7.60	4.01	11.46	7.09	4.35	10.59	6.70	4.79
		30°C	14.04	10.09	3.16	13.54	9.90	3.42	13.03	9.68	3.70	12.50	9.46	4.02	11.49	8.86	4.36	10.63	8.40	4.80
		33°C	14.09	11.82	3.16	13.60	11.62	3.42	13.10	11.37	3.71	12.58	11.12	4.02	11.58	10.42	4.36	10.72	9.89	4.81
		36°C	14.21	13.35	3.17	13.77	13.11	3.43	13.29	12.82	3.72	12.81	12.50	4.04	11.84	11.66	4.39	11.04	10.98	4.84

Remark:

AFR: Air flow rate (CFM)

EWB: Entering Wet Bulb Temp. (°C)

EDB: Entering Dry Bulb Temp. (°C)

TC: Total Cooling Capacity (kW)

SC: Sensible Cooling Capacity (kW)

PI: Power Input (kW)

Notes:

1. Ratings shown are net capacities.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Performance Data

Model: FLRN125EXV1 - RR125DXY1

Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
959	16°C	21°C	12.44	9.39	3.43	12.00	9.14	3.71	11.55	8.90	4.02	11.09	8.64	4.36	10.18	8.04	4.73	9.40	7.56	5.21
		24°C	12.45	11.24	3.43	12.01	10.98	3.71	11.57	10.73	4.02	11.11	10.46	4.36	10.20	9.77	4.73	9.44	9.22	5.22
		27°C	12.55	12.55	3.44	12.14	12.14	3.72	11.71	11.71	4.03	11.27	11.27	4.37	10.40	10.40	4.74	9.67	9.67	5.24
		30°C	12.94	12.94	3.45	12.57	12.57	3.74	12.19	12.19	4.06	11.79	11.79	4.40	10.93	10.93	4.79	10.23	10.23	5.28
	19°C	24°C	13.72	8.76	3.49	13.24	8.54	3.77	12.75	8.32	4.09	12.25	8.08	4.44	11.26	7.53	4.81	10.41	7.09	5.30
		27°C	13.73	10.03	3.49	13.24	9.80	3.77	12.76	9.58	4.09	12.26	9.35	4.44	11.27	8.74	4.81	10.42	8.28	5.30
		30°C	13.75	12.37	3.49	13.27	12.11	3.78	12.81	11.84	4.09	12.32	11.56	4.44	11.34	10.81	4.82	10.52	10.23	5.31
		33°C	13.91	13.91	3.50	13.46	13.46	3.79	13.02	13.02	4.11	12.58	12.58	4.46	11.64	11.64	4.84	10.88	10.88	5.35
	22°C	27°C	15.09	8.58	3.55	14.57	8.37	3.85	14.04	8.16	4.17	13.49	7.94	4.52	12.41	7.40	4.91	11.48	6.97	5.40
		30°C	15.10	10.45	3.55	14.58	10.23	3.85	14.04	10.00	4.17	13.49	9.76	4.52	12.41	9.14	4.91	11.49	8.67	5.41
		33°C	15.11	12.21	3.55	14.58	11.98	3.85	14.05	11.74	4.17	13.50	11.50	4.52	12.43	10.79	4.91	11.52	10.25	5.41
		36°C	15.16	13.85	3.55	14.65	13.57	3.85	14.15	13.29	4.18	13.63	12.99	4.53	12.57	12.18	4.92	11.69	11.56	5.42
1082	16°C	21°C	12.94	9.79	3.46	12.47	9.54	3.75	12.00	9.28	4.06	11.51	9.02	4.40	10.56	8.40	4.77	9.74	7.91	5.26
		24°C	12.98	11.88	3.46	12.51	11.60	3.75	12.04	11.33	4.06	11.56	11.04	4.40	10.62	10.30	4.77	9.82	9.72	5.26
		27°C	13.14	13.14	3.47	12.69	12.69	3.76	12.26	12.26	4.07	11.82	11.82	4.42	10.91	10.91	4.80	10.16	10.16	5.29
		30°C	13.68	13.68	3.50	13.29	13.29	3.79	12.88	12.88	4.11	12.46	12.46	4.46	11.55	11.55	4.85	10.79	10.79	5.35
	19°C	24°C	14.26	9.26	3.52	13.75	9.03	3.81	13.23	8.79	4.13	12.70	8.55	4.48	11.66	7.97	4.85	10.77	7.51	5.35
		27°C	14.28	10.67	3.52	13.77	10.43	3.81	13.26	10.19	4.13	12.72	9.95	4.48	11.69	9.30	4.86	10.81	8.81	5.35
		30°C	14.35	13.16	3.52	13.85	12.87	3.82	13.35	12.59	4.14	12.84	12.28	4.49	11.83	11.48	4.87	10.97	10.85	5.37
		33°C	14.59	14.59	3.54	14.14	14.14	3.83	13.69	13.69	4.16	13.24	13.24	4.51	12.26	12.26	4.90	11.46	11.46	5.41
	22°C	27°C	15.66	9.07	3.58	15.11	8.85	3.88	14.55	8.63	4.21	13.97	8.40	4.56	12.84	7.83	4.95	11.88	7.39	5.45
		30°C	15.68	11.13	3.59	15.13	10.90	3.88	14.57	10.65	4.21	13.99	10.40	4.57	12.86	9.74	4.95	11.89	9.25	5.45
		33°C	15.71	13.04	3.59	15.17	12.79	3.89	14.61	12.53	4.21	14.03	12.26	4.57	12.91	11.50	4.96	11.97	10.92	5.46
		36°C	15.81	14.74	3.59	15.30	14.46	3.90	14.76	14.16	4.22	14.23	13.83	4.58	13.13	12.94	4.97	12.24	12.21	5.49
1215	16°C	21°C	13.42	10.21	3.49	12.93	9.95	3.78	12.43	9.69	4.09	11.92	9.42	4.43	10.93	8.77	4.81	10.07	8.26	5.30
		24°C	13.49	12.41	3.49	13.00	12.12	3.78	12.51	11.82	4.09	12.00	11.51	4.44	11.03	10.74	4.81	10.19	10.13	5.31
		27°C	13.71	13.71	3.51	13.26	13.26	3.79	12.81	12.81	4.11	12.35	12.35	4.46	11.41	11.41	4.84	10.64	10.64	5.35
		30°C	14.39	14.39	3.54	13.97	13.97	3.83	13.54	13.54	4.15	13.10	13.10	4.51	12.13	12.13	4.90	11.32	11.32	5.41
	19°C	24°C	14.77	9.80	3.55	14.24	9.56	3.84	13.69	9.31	4.16	13.14	9.06	4.51	12.06	8.44	4.89	11.13	7.96	5.39
		27°C	14.81	11.34	3.55	14.28	11.08	3.84	13.74	10.82	4.17	13.19	10.55	4.52	12.11	9.87	4.90	11.19	9.34	5.40
		30°C	14.94	13.95	3.56	14.41	13.65	3.85	13.89	13.33	4.17	13.36	13.00	4.53	12.30	12.14	4.91	11.42	11.42	5.42
		33°C	15.26	15.26	3.57	14.81	14.81	3.87	14.36	14.36	4.20	13.88	13.88	4.57	12.86	12.86	4.96	12.03	12.03	5.48
	22°C	27°C	16.21	9.58	3.62	15.63	9.37	3.92	15.04	9.14	4.24	14.44	8.90	4.60	13.26	8.30	4.99	12.26	7.84	5.50
		30°C	16.24	11.82	3.62	15.66	11.59	3.92	15.07	11.34	4.25	14.47	11.08	4.61	13.29	10.38	4.99	12.29	9.84	5.50
		33°C	16.30	13.85	3.62	15.73	13.61	3.92	15.15	13.32	4.25	14.56	13.03	4.61	13.39	12.21	5.00	12.41	11.59	5.51
		36°C	16.44	15.64	3.63	15.93	15.35	3.94	15.38	15.01	4.27	14.82	14.64	4.63	13.70	13.66	5.03	12.78	12.78	5.55

Remark:

AFR: Air flow rate (CFM)
EWB: Entering Wet Bulb Temp. (°C)
EDB: Entering Dry Bulb Temp. (°C)
TC: Total Cooling Capacity (kW)
SC: Sensible Cooling Capacity (kW)
PI: Power Input (kW)

Notes:

1. Ratings shown are net capacities.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Model: FHRN140CXV1 - RR140DXY1**Cooling Mode**

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
1000	16°C	21°C	15.19	10.03	4.87	14.66	9.77	5.27	14.11	9.50	5.71	13.54	9.23	6.19	12.44	8.59	6.71	11.48	8.08	7.40
		24°C	15.21	12.01	4.87	14.67	11.73	5.27	14.13	11.46	5.71	13.57	11.18	6.19	12.46	10.44	6.72	11.53	9.85	7.41
		27°C	15.33	13.62	4.88	14.82	13.31	5.28	14.30	12.99	5.72	13.76	12.66	6.20	12.70	11.78	6.74	11.82	11.07	7.43
		30°C	15.81	15.81	4.90	15.35	15.35	5.31	14.89	14.89	5.76	14.41	14.41	6.25	13.35	13.35	6.79	12.49	12.49	7.50
	19°C	24°C	16.76	9.36	4.95	16.17	9.13	5.36	15.58	8.88	5.81	14.96	8.63	6.30	13.75	8.04	6.83	12.71	7.57	7.53
		27°C	16.77	10.71	4.95	16.18	10.47	5.36	15.59	10.23	5.81	14.97	9.98	6.30	13.76	9.34	6.83	12.73	8.85	7.53
		30°C	16.80	13.22	4.95	16.22	12.94	5.36	15.64	12.65	5.81	15.05	12.35	6.30	13.86	11.55	6.84	12.85	10.93	7.54
		33°C	16.99	16.99	4.96	16.44	16.44	5.38	15.91	15.91	5.83	15.37	15.37	6.33	14.22	14.22	6.87	13.29	13.29	7.59
	22°C	27°C	18.44	9.17	5.04	17.80	8.94	5.46	17.15	8.72	5.92	16.48	8.48	6.42	15.15	7.90	6.96	14.03	7.45	7.67
		30°C	18.44	11.17	5.04	17.81	10.93	5.46	17.15	10.68	5.92	16.48	10.43	6.42	15.16	9.76	6.97	14.03	9.26	7.67
		33°C	18.45	13.04	5.04	17.81	12.80	5.46	17.17	12.54	5.92	16.49	12.28	6.42	15.18	11.53	6.97	14.07	10.95	7.68
		36°C	18.51	14.79	5.04	17.90	14.50	5.47	17.28	14.19	5.93	16.65	13.88	6.43	15.36	13.01	6.98	14.28	12.35	7.70
1320	16°C	21°C	15.81	10.47	4.92	15.24	10.20	5.32	14.66	9.93	5.76	14.07	9.65	6.24	12.91	8.98	6.77	11.91	8.45	7.46
		24°C	15.86	12.70	4.92	15.29	12.41	5.32	14.72	12.11	5.76	14.12	11.81	6.25	12.98	11.01	6.78	11.99	10.39	7.47
		27°C	16.05	14.43	4.93	15.51	14.09	5.33	14.98	13.73	5.78	14.44	13.32	6.27	13.33	12.37	6.81	12.42	11.57	7.52
		30°C	16.72	16.72	4.97	16.24	16.24	5.38	15.74	15.74	5.83	15.23	15.23	6.33	14.11	14.11	6.88	13.19	13.19	7.60
	19°C	24°C	17.42	9.90	5.00	16.80	9.65	5.41	16.17	9.40	5.86	15.52	9.14	6.35	14.25	8.52	6.89	13.17	8.03	7.59
		27°C	17.45	11.40	5.00	16.83	11.15	5.41	16.20	10.90	5.86	15.55	10.64	6.36	14.29	9.95	6.90	13.21	9.42	7.60
		30°C	17.53	14.07	5.00	16.92	13.76	5.42	16.32	13.46	5.87	15.69	13.13	6.37	14.45	12.27	6.91	13.41	11.60	7.62
		33°C	17.83	17.83	5.02	17.28	17.28	5.44	16.73	16.73	5.90	16.18	16.18	6.41	14.98	14.98	6.96	14.01	14.01	7.69
	22°C	27°C	19.14	9.69	5.09	18.47	9.47	5.51	17.78	9.23	5.98	17.07	8.98	6.48	15.69	8.37	7.03	14.51	7.90	7.74
		30°C	19.16	11.90	5.09	18.49	11.65	5.52	17.80	11.39	5.98	17.09	11.12	6.48	15.71	10.42	7.03	14.53	9.89	7.74
		33°C	19.20	13.94	5.09	18.53	13.67	5.52	17.85	13.39	5.98	17.15	13.11	6.49	15.78	12.30	7.04	14.62	11.68	7.76
		36°C	19.32	15.76	5.10	18.69	15.46	5.53	18.04	15.14	6.00	17.38	14.79	6.51	16.04	13.84	7.06	14.95	13.05	7.79
1550	16°C	21°C	16.40	10.92	4.96	15.80	10.64	5.36	15.19	10.36	5.81	14.56	10.07	6.29	13.36	9.38	6.83	12.31	8.83	7.52
		24°C	16.49	13.27	4.96	15.89	12.96	5.37	15.29	12.64	5.81	14.67	12.31	6.30	13.47	11.49	6.84	12.45	10.83	7.53
		27°C	16.75	15.21	4.98	16.20	14.82	5.39	15.66	14.40	5.84	15.09	13.96	6.34	13.95	12.93	6.88	13.00	12.07	7.59
		30°C	17.59	17.59	5.02	17.07	17.07	5.44	16.55	16.55	5.90	16.00	16.00	6.41	14.82	14.82	6.96	13.84	13.84	7.68
	19°C	24°C	18.05	10.48	5.04	17.40	10.22	5.45	16.74	9.96	5.91	16.05	9.69	6.41	14.73	9.03	6.95	13.60	8.52	7.65
		27°C	18.10	12.12	5.04	17.45	11.84	5.46	16.80	11.57	5.91	16.12	11.28	6.41	14.80	10.55	6.96	13.68	9.98	7.66
		30°C	18.25	14.92	5.05	17.61	14.59	5.47	16.98	14.26	5.93	16.33	13.90	6.43	15.03	12.98	6.98	13.95	12.24	7.69
		33°C	18.65	18.65	5.08	18.10	18.10	5.50	17.54	17.54	5.97	16.97	16.97	6.48	15.72	15.72	7.04	14.70	14.70	7.78
	22°C	27°C	19.81	10.25	5.13	19.10	10.02	5.56	18.38	9.77	6.03	17.64	9.52	6.54	16.21	8.88	7.09	14.98	8.38	7.80
		30°C	19.85	12.63	5.14	19.14	12.40	5.56	18.42	12.13	6.03	17.68	11.85	6.54	16.24	11.10	7.09	15.02	10.52	7.81
		33°C	19.92	14.81	5.14	19.23	14.55	5.57	18.52	14.24	6.04	17.79	13.93	6.55	16.37	13.05	7.11	15.16	12.39	7.83
		36°C	20.09	16.72	5.15	19.46	16.41	5.59	18.79	16.05	6.06	18.11	15.66	6.58	16.74	14.60	7.14	15.61	13.75	7.88

Remark:

AFR: Air flow rate (CFM)

EWB: Entering Wet Bulb Temp. (°C)

EDB: Entering Dry Bulb Temp. (°C)

TC: Total Cooling Capacity (kW)

SC: Sensible Cooling Capacity (kW)

PI: Power Input (kW)

Notes:

1. Ratings shown are net capacities.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

R410A Heatpump

Model: FLQN35EXV1 - RYN35CXV1

Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
350	16°C	21°C	3.56	2.62	0.97	3.44	2.56	1.05	3.31	2.49	1.14	3.18	2.42	1.24	2.92	2.25	1.34	2.69	2.11	1.48
		24°C	3.57	3.14	0.97	3.44	3.07	1.05	3.31	3.00	1.14	3.18	2.92	1.24	2.92	2.73	1.34	2.70	2.58	1.48
		27°C	3.60	3.56	0.97	3.48	3.48	1.05	3.36	3.36	1.14	3.23	3.23	1.24	2.98	2.98	1.34	2.77	2.77	1.48
		30°C	3.71	3.71	0.98	3.60	3.60	1.06	3.49	3.49	1.15	3.38	3.38	1.25	3.13	3.13	1.36	2.93	2.93	1.50
	19°C	24°C	3.93	2.45	0.99	3.79	2.39	1.07	3.65	2.32	1.16	3.51	2.26	1.26	3.23	2.10	1.36	2.98	1.98	1.50
		27°C	3.93	2.80	0.99	3.80	2.74	1.07	3.66	2.68	1.16	3.51	2.61	1.26	3.23	2.44	1.36	2.99	2.32	1.50
		30°C	3.94	3.46	0.99	3.80	3.39	1.07	3.67	3.31	1.16	3.53	3.23	1.26	3.25	3.02	1.37	3.02	2.86	1.51
		33°C	3.99	3.99	0.99	3.86	3.86	1.07	3.73	3.73	1.16	3.60	3.60	1.26	3.34	3.34	1.37	3.12	3.12	1.51
	22°C	27°C	4.33	2.40	1.01	4.18	2.34	1.09	4.02	2.28	1.18	3.87	2.22	1.28	3.56	2.07	1.39	3.29	1.95	1.53
		30°C	4.33	2.92	1.01	4.18	2.86	1.09	4.02	2.80	1.18	3.87	2.73	1.28	3.56	2.55	1.39	3.29	2.42	1.53
		33°C	4.33	3.41	1.01	4.18	3.35	1.09	4.03	3.28	1.18	3.87	3.21	1.28	3.56	3.02	1.39	3.30	2.87	1.53
		36°C	4.34	3.87	1.01	4.20	3.79	1.09	4.05	3.71	1.18	3.91	3.63	1.28	3.60	3.41	1.39	3.35	3.23	1.54
386	16°C	21°C	3.71	2.74	0.98	3.57	2.67	1.06	3.44	2.60	1.15	3.30	2.52	1.25	3.03	2.35	1.35	2.79	2.21	1.49
		24°C	3.72	3.32	0.98	3.59	3.24	1.06	3.45	3.17	1.15	3.31	3.09	1.25	3.04	2.88	1.35	2.81	2.72	1.49
		27°C	3.76	3.76	0.98	3.64	3.64	1.06	3.51	3.51	1.15	3.39	3.39	1.25	3.13	3.13	1.36	2.91	2.91	1.50
		30°C	3.92	3.92	0.99	3.81	3.81	1.07	3.69	3.69	1.16	3.57	3.57	1.26	3.31	3.31	1.37	3.09	3.09	1.52
	19°C	24°C	4.09	2.59	1.00	3.94	2.52	1.08	3.79	2.46	1.17	3.64	2.39	1.27	3.34	2.23	1.38	3.09	2.10	1.52
		27°C	4.09	2.98	1.00	3.95	2.92	1.08	3.80	2.85	1.17	3.65	2.78	1.27	3.35	2.60	1.38	3.10	2.46	1.52
		30°C	4.11	3.68	1.00	3.97	3.60	1.08	3.83	3.52	1.17	3.68	3.43	1.27	3.39	3.21	1.38	3.14	3.03	1.52
		33°C	4.18	4.18	1.00	4.05	4.05	1.09	3.92	3.92	1.18	3.79	3.79	1.28	3.51	3.51	1.39	3.29	3.29	1.53
	22°C	27°C	4.49	2.53	1.02	4.33	2.48	1.10	4.17	2.41	1.19	4.00	2.35	1.29	3.68	2.19	1.40	3.40	2.07	1.54
		30°C	4.49	3.11	1.02	4.34	3.05	1.10	4.17	2.98	1.19	4.01	2.91	1.29	3.68	2.72	1.40	3.41	2.59	1.55
		33°C	4.50	3.65	1.02	4.35	3.58	1.10	4.19	3.50	1.19	4.02	3.43	1.30	3.70	3.22	1.40	3.43	3.05	1.55
		36°C	4.53	4.12	1.02	4.38	4.04	1.10	4.23	3.96	1.20	4.08	3.87	1.30	3.76	3.62	1.41	3.51	3.41	1.56
508	16°C	21°C	3.85	2.86	0.99	3.70	2.78	1.07	3.56	2.71	1.16	3.41	2.63	1.26	3.13	2.45	1.36	2.89	2.31	1.50
		24°C	3.87	3.47	0.99	3.73	3.39	1.07	3.59	3.30	1.16	3.44	3.22	1.26	3.16	3.00	1.36	2.92	2.83	1.50
		27°C	3.93	3.93	0.99	3.80	3.80	1.08	3.67	3.67	1.17	3.54	3.54	1.26	3.27	3.27	1.37	3.05	3.05	1.51
		30°C	4.12	4.12	1.00	4.00	4.00	1.09	3.88	3.88	1.18	3.75	3.75	1.28	3.47	3.47	1.39	3.25	3.25	1.53
	19°C	24°C	4.23	2.74	1.01	4.08	2.67	1.09	3.92	2.60	1.18	3.76	2.53	1.28	3.46	2.36	1.39	3.19	2.23	1.53
		27°C	4.25	3.17	1.01	4.09	3.10	1.09	3.94	3.02	1.18	3.78	2.95	1.28	3.47	2.76	1.39	3.21	2.61	1.53
		30°C	4.28	3.90	1.01	4.13	3.81	1.09	3.98	3.73	1.18	3.83	3.63	1.28	3.52	3.39	1.39	3.27	3.20	1.54
		33°C	4.37	4.37	1.01	4.25	4.25	1.10	4.11	4.11	1.19	3.98	3.98	1.29	3.69	3.69	1.41	3.45	3.45	1.55
	22°C	27°C	4.64	2.68	1.02	4.48	2.62	1.11	4.31	2.55	1.20	4.14	2.49	1.30	3.80	2.32	1.41	3.51	2.19	1.56
		30°C	4.65	3.30	1.03	4.49	3.24	1.11	4.32	3.17	1.20	4.15	3.10	1.31	3.81	2.90	1.42	3.52	2.75	1.56
		33°C	4.67	3.87	1.03	4.51	3.80	1.11	4.34	3.72	1.21	4.17	3.64	1.31	3.84	3.41	1.42	3.56	3.24	1.56
		36°C	4.71	4.37	1.03	4.56	4.29	1.12	4.41	4.20	1.21	4.25	4.09	1.31	3.93	3.82	1.42	3.66	3.59	1.57

Model: FLQN35EXV1 - RYN35CXV1

Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	2.094	2.094	2.370	2.370	2.462	2.462	3.475	3.475	4.027	4.027	4.303	4.303	4.579	4.579
17°C	2.039	2.039	2.337	2.337	2.411	2.411	3.470	3.470	3.991	3.991	4.270	4.270	4.548	4.548
19°C	1.984	1.984	2.303	2.303	2.360	2.360	3.466	3.466	3.955	3.955	4.237	4.237	4.518	4.518
21°C	1.930	1.930	2.253	2.253	2.308	2.308	3.430	3.430	3.919	3.919	4.203	4.203	4.488	4.488
23°C	1.875	1.875	2.188	2.188	2.257	2.257	3.362	3.362	3.883	3.883	4.170	4.170	4.457	4.457
25°C	1.820	1.820	2.123	2.123	2.206	2.206	3.295	3.295	3.847	3.847	4.137	4.137	4.427	4.427
27°C	1.765	1.765	2.057	2.057	2.155	2.155	3.227	3.227	3.811	3.811	4.104	4.104	4.396	4.396
Frost Region														

Remark:

AFR: Air flow rate (CFM)

EWB: Entering Wet Bulb Temp. (°C)

EDB: Entering Dry Bulb Temp. (°C)

TC: Total Cooling / Heating Capacity (kW)

SC: Sensible Cooling / Heating Capacity (kW)

PI: Power Input (kW)

Notes:

1. Ratings shown are net capacities.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

Model: FLQN50EXV1 - RYN50CXV1

Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
406	16°C	21°C	4.84	3.33	1.31	4.67	3.24	1.41	4.49	3.15	1.53	4.31	3.06	1.66	3.96	2.85	1.80	3.66	2.68	1.99
		24°C	4.84	3.98	1.31	4.67	3.89	1.41	4.50	3.80	1.53	4.32	3.71	1.66	3.97	3.46	1.80	3.67	3.27	1.99
		27°C	4.88	4.52	1.31	4.72	4.41	1.42	4.55	4.31	1.53	4.38	4.20	1.66	4.04	3.91	1.81	3.76	3.67	1.99
		30°C	5.03	5.03	1.32	4.89	4.89	1.42	4.74	4.74	1.54	4.59	4.59	1.68	4.25	4.25	1.82	3.98	3.98	2.01
	19°C	24°C	5.34	3.11	1.33	5.15	3.03	1.44	4.96	2.95	1.56	4.76	2.86	1.69	4.38	2.67	1.83	4.05	2.51	2.02
		27°C	5.34	3.55	1.33	5.15	3.47	1.44	4.96	3.39	1.56	4.77	3.31	1.69	4.38	3.10	1.83	4.05	2.94	2.02
		30°C	5.35	4.39	1.33	5.16	4.29	1.44	4.98	4.20	1.56	4.79	4.10	1.69	4.41	3.83	1.83	4.09	3.63	2.02
		33°C	5.41	5.41	1.33	5.23	5.23	1.44	5.07	5.07	1.56	4.89	4.89	1.70	4.53	4.53	1.84	4.23	4.23	2.04
	22°C	27°C	5.87	3.04	1.35	5.67	2.97	1.46	5.46	2.89	1.59	5.25	2.81	1.72	4.82	2.62	1.87	4.47	2.47	2.06
		30°C	5.87	3.71	1.35	5.67	3.63	1.46	5.46	3.54	1.59	5.25	3.46	1.72	4.83	3.24	1.87	4.47	3.07	2.06
		33°C	5.88	4.33	1.35	5.67	4.24	1.46	5.47	4.16	1.59	5.25	4.07	1.72	4.83	3.83	1.87	4.48	3.63	2.06
		36°C	5.89	4.91	1.35	5.70	4.81	1.47	5.50	4.71	1.59	5.30	4.60	1.73	4.89	4.32	1.87	4.55	4.10	2.06
460	16°C	21°C	5.03	3.47	1.32	4.85	3.38	1.43	4.67	3.29	1.54	4.48	3.20	1.67	4.11	2.98	1.82	3.79	2.80	2.00
		24°C	5.05	4.21	1.32	4.87	4.11	1.43	4.68	4.01	1.55	4.50	3.91	1.68	4.13	3.65	1.82	3.82	3.45	2.00
		27°C	5.11	4.78	1.32	4.94	4.67	1.43	4.77	4.55	1.55	4.60	4.42	1.68	4.24	4.10	1.83	3.95	3.84	2.02
		30°C	5.32	5.32	1.33	5.17	5.17	1.44	5.01	5.01	1.56	4.85	4.85	1.70	4.49	4.49	1.85	4.20	4.20	2.04
	19°C	24°C	5.54	3.28	1.34	5.35	3.20	1.45	5.15	3.12	1.57	4.94	3.03	1.70	4.54	2.82	1.85	4.19	2.66	2.04
		27°C	5.55	3.78	1.34	5.36	3.70	1.45	5.16	3.61	1.57	4.95	3.53	1.70	4.55	3.30	1.85	4.20	3.12	2.04
		30°C	5.58	4.66	1.34	5.39	4.56	1.45	5.19	4.46	1.57	5.00	4.35	1.71	4.60	4.07	1.85	4.27	3.84	2.04
		33°C	5.67	5.67	1.35	5.50	5.50	1.46	5.33	5.33	1.58	5.15	5.15	1.72	4.77	4.77	1.87	4.46	4.46	2.06
	22°C	27°C	6.09	3.21	1.36	5.88	3.14	1.48	5.66	3.06	1.60	5.43	2.98	1.74	4.99	2.78	1.88	4.62	2.62	2.08
		30°C	6.10	3.94	1.37	5.88	3.86	1.48	5.67	3.78	1.60	5.44	3.69	1.74	5.00	3.45	1.89	4.63	3.28	2.08
		33°C	6.11	4.62	1.37	5.90	4.53	1.48	5.68	4.44	1.60	5.46	4.35	1.74	5.02	4.08	1.89	4.65	3.87	2.08
		36°C	6.15	5.22	1.37	5.95	5.12	1.48	5.74	5.02	1.61	5.53	4.90	1.75	5.10	4.59	1.89	4.76	4.33	2.09
520	16°C	21°C	5.22	3.62	1.33	5.03	3.53	1.44	4.83	3.44	1.56	4.63	3.34	1.69	4.25	3.11	1.83	3.92	2.93	2.02
		24°C	5.25	4.40	1.33	5.06	4.29	1.44	4.87	4.19	1.56	4.67	4.08	1.69	4.29	3.81	1.83	3.96	3.59	2.02
		27°C	5.33	5.04	1.33	5.16	4.91	1.44	4.98	4.77	1.57	4.80	4.63	1.70	4.44	4.29	1.84	4.14	4.00	2.04
		30°C	5.60	5.60	1.35	5.43	5.43	1.46	5.27	5.27	1.58	5.09	5.09	1.72	4.72	4.72	1.87	4.40	4.40	2.06
	19°C	24°C	5.74	3.47	1.35	5.54	3.39	1.46	5.33	3.30	1.58	5.11	3.21	1.72	4.69	2.99	1.86	4.33	2.82	2.05
		27°C	5.76	4.02	1.35	5.55	3.93	1.46	5.35	3.83	1.59	5.13	3.74	1.72	4.71	3.50	1.87	4.35	3.31	2.06
		30°C	5.81	4.94	1.35	5.60	4.84	1.47	5.40	4.73	1.59	5.20	4.61	1.72	4.78	4.30	1.87	4.44	4.06	2.06
		33°C	5.93	5.93	1.36	5.76	5.76	1.48	5.58	5.58	1.60	5.40	5.40	1.74	5.00	5.00	1.89	4.68	4.68	2.09
	22°C	27°C	6.30	3.40	1.38	6.08	3.32	1.49	5.85	3.24	1.62	5.62	3.15	1.75	5.16	2.94	1.90	4.77	2.78	2.09
		30°C	6.32	4.19	1.38	6.09	4.11	1.49	5.86	4.02	1.62	5.63	3.93	1.75	5.17	3.68	1.90	4.78	3.49	2.09
		33°C	6.34	4.91	1.38	6.12	4.82	1.49	5.89	4.72	1.62	5.66	4.62	1.76	5.21	4.33	1.91	4.83	4.11	2.10
		36°C	6.39	5.54	1.38	6.19	5.44	1.50	5.98	5.32	1.63	5.77	5.19	1.76	5.33	4.84	1.91	4.97	4.56	2.11

Model: FLQN50EXV1 - RYN50CXV1

Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	3.278	3.278	3.710	3.710	3.854	3.854	5.438	5.438	6.302	6.302	6.735	6.735	7.167	7.167
17°C	3.192	3.192	3.680	3.680	3.770	3.770	5.432	5.432	6.228	6.228	6.662	6.662	7.096	7.096
19°C	3.106	3.106	3.649	3.649	3.686	3.686	5.425	5.425	6.154	6.154	6.589	6.589	7.025	7.025
21°C	3.020	3.020	3.573	3.573	3.603	3.603	5.358	5.358	6.080	6.080	6.517	6.517	6.954	6.954
23°C	2.934	2.934	3.450	3.450	3.519	3.519	5.229	5.229	6.005	6.005	6.444	6.444	6.883	6.883
25°C	2.848	2.848	3.327	3.327	3.435	3.435	5.101	5.101	5.931	5.931	6.371	6.371	6.812	6.812
27°C	2.762	2.762	3.204	3.204	3.352	3.352	4.973	4.973	5.857	5.857	6.299	6.299	6.741	6.741
Frost Region														

Remark:

AFR: Air flow rate (CFM)

EWB: Entering Wet Bulb Temp. (°C)

EDB: Entering Dry Bulb Temp. (°C)

TC: Total Cooling / Heating Capacity (kW)

SC: Sensible Cooling / Heating Capacity (kW)

PI: Power Input (kW)

Notes:

1. Ratings shown are net capacities.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

Model: FLQN50EXV1 - RYN50CXY1**Cooling Mode**

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
406	16°C	21°C	5.00	3.44	1.34	4.82	3.35	1.45	4.64	3.26	1.57	4.46	3.17	1.70	4.09	2.95	1.84	3.78	2.77	2.03
		24°C	5.00	4.12	1.34	4.83	4.03	1.45	4.65	3.93	1.57	4.46	3.84	1.70	4.10	3.58	1.84	3.79	3.38	2.03
		27°C	5.04	4.67	1.34	4.88	4.57	1.45	4.70	4.46	1.57	4.53	4.35	1.70	4.18	4.04	1.85	3.89	3.80	2.04
		30°C	5.20	5.20	1.35	5.05	5.05	1.46	4.90	4.90	1.58	4.74	4.74	1.72	4.39	4.39	1.86	4.11	4.11	2.06
	19°C	24°C	5.51	3.21	1.36	5.32	3.13	1.47	5.12	3.05	1.59	4.92	2.96	1.73	4.52	2.76	1.87	4.18	2.60	2.07
		27°C	5.52	3.68	1.36	5.32	3.59	1.47	5.13	3.51	1.59	4.93	3.43	1.73	4.53	3.21	1.88	4.19	3.04	2.07
		30°C	5.52	4.54	1.36	5.33	4.44	1.47	5.15	4.34	1.59	4.95	4.24	1.73	4.56	3.96	1.88	4.23	3.75	2.07
		33°C	5.59	5.59	1.36	5.41	5.41	1.48	5.23	5.23	1.60	5.05	5.05	1.74	4.68	4.68	1.89	4.37	4.37	2.08
	22°C	27°C	6.06	3.15	1.38	5.85	3.07	1.50	5.64	2.99	1.62	5.42	2.91	1.76	4.98	2.71	1.91	4.61	2.56	2.11
		30°C	6.07	3.83	1.38	5.86	3.75	1.50	5.64	3.67	1.62	5.42	3.58	1.76	4.99	3.35	1.91	4.62	3.18	2.11
		33°C	6.07	4.48	1.38	5.86	4.39	1.50	5.65	4.31	1.62	5.43	4.22	1.76	4.99	3.96	1.91	4.63	3.76	2.11
		36°C	6.09	5.08	1.38	5.89	4.98	1.50	5.68	4.87	1.63	5.48	4.76	1.77	5.05	4.47	1.92	4.70	4.24	2.11
460	16°C	21°C	5.20	3.59	1.35	5.01	3.50	1.46	4.82	3.40	1.58	4.62	3.31	1.71	4.24	3.08	1.86	3.91	2.90	2.05
		24°C	5.22	4.36	1.35	5.03	4.26	1.46	4.84	4.15	1.58	4.64	4.05	1.71	4.27	3.78	1.86	3.94	3.57	2.05
		27°C	5.28	4.95	1.35	5.10	4.83	1.46	4.92	4.71	1.59	4.75	4.57	1.72	4.38	4.24	1.87	4.08	3.97	2.06
		30°C	5.50	5.50	1.36	5.34	5.34	1.48	5.18	5.18	1.60	5.01	5.01	1.74	4.64	4.64	1.89	4.34	4.34	2.08
	19°C	24°C	5.73	3.40	1.37	5.52	3.31	1.48	5.32	3.22	1.61	5.10	3.14	1.74	4.69	2.92	1.89	4.33	2.75	2.08
		27°C	5.74	3.91	1.37	5.53	3.83	1.48	5.33	3.74	1.61	5.11	3.65	1.74	4.70	3.41	1.89	4.34	3.23	2.09
		30°C	5.77	4.83	1.37	5.57	4.72	1.49	5.37	4.62	1.61	5.16	4.50	1.75	4.75	4.21	1.90	4.41	3.98	2.09
		33°C	5.86	5.86	1.38	5.68	5.68	1.49	5.50	5.50	1.62	5.32	5.32	1.76	4.93	4.93	1.91	4.61	4.61	2.11
	22°C	27°C	6.29	3.33	1.40	6.07	3.25	1.51	5.85	3.17	1.64	5.61	3.08	1.78	5.16	2.87	1.93	4.77	2.71	2.12
		30°C	6.30	4.08	1.40	6.08	4.00	1.51	5.85	3.91	1.64	5.62	3.82	1.78	5.17	3.57	1.93	4.78	3.39	2.13
		33°C	6.31	4.78	1.40	6.09	4.69	1.51	5.87	4.59	1.64	5.64	4.50	1.78	5.19	4.22	1.93	4.81	4.00	2.13
		36°C	6.35	5.41	1.40	6.15	5.30	1.52	5.93	5.19	1.65	5.72	5.07	1.79	5.27	4.75	1.94	4.92	4.48	2.14
520	16°C	21°C	5.39	3.75	1.36	5.19	3.65	1.47	4.99	3.55	1.59	4.79	3.46	1.73	4.39	3.22	1.87	4.05	3.03	2.06
		24°C	5.42	4.55	1.36	5.22	4.44	1.47	5.03	4.34	1.60	4.82	4.22	1.73	4.43	3.94	1.88	4.09	3.71	2.07
		27°C	5.51	5.22	1.37	5.33	5.08	1.48	5.15	4.94	1.60	4.96	4.79	1.74	4.59	4.43	1.89	4.27	4.14	2.08
		30°C	5.78	5.78	1.38	5.61	5.61	1.49	5.44	5.44	1.62	5.26	5.26	1.76	4.87	4.87	1.91	4.55	4.55	2.11
	19°C	24°C	5.93	3.59	1.38	5.72	3.50	1.50	5.50	3.41	1.62	5.28	3.32	1.76	4.84	3.10	1.91	4.47	2.92	2.10
		27°C	5.95	4.16	1.38	5.74	4.06	1.50	5.52	3.97	1.62	5.30	3.87	1.76	4.87	3.62	1.91	4.50	3.42	2.10
		30°C	6.00	5.12	1.39	5.79	5.00	1.50	5.58	4.89	1.63	5.37	4.77	1.76	4.94	4.45	1.91	4.59	4.20	2.11
		33°C	6.13	6.13	1.39	5.95	5.95	1.51	5.77	5.77	1.64	5.58	5.58	1.78	5.17	5.17	1.93	4.83	4.83	2.13
	22°C	27°C	6.51	3.51	1.41	6.28	3.44	1.53	6.04	3.35	1.65	5.80	3.26	1.79	5.33	3.05	1.94	4.92	2.88	2.14
		30°C	6.53	4.33	1.41	6.29	4.25	1.53	6.06	4.16	1.65	5.81	4.06	1.79	5.34	3.81	1.95	4.94	3.61	2.14
		33°C	6.55	5.08	1.41	6.32	4.99	1.53	6.09	4.88	1.66	5.85	4.78	1.80	5.38	4.48	1.95	4.99	4.25	2.15
		36°C	6.61	5.73	1.41	6.40	5.63	1.53	6.18	5.51	1.66	5.96	5.37	1.80	5.50	5.01	1.96	5.13	4.72	2.16

Model: FLQN50EXV1 - RYN50CXY1**Heating Mode**

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	3.326	3.326	3.764	3.764	3.910	3.910	5.518	5.518	6.394	6.394	6.833	6.833	7.271	7.271
17°C	3.238	3.238	3.712	3.712	3.823	3.823	5.511	5.511	6.306	6.306	6.745	6.745	7.183	7.183
19°C	3.151	3.151	3.660	3.660	3.735	3.735	5.504	5.504	6.218	6.218	6.656	6.656	7.094	7.094
21°C	3.064	3.064	3.578	3.578	3.648	3.648	5.428	5.428	6.130	6.130	6.568	6.568	7.006	7.006
23°C	2.977	2.977	3.465	3.465	3.561	3.561	5.282	5.282	6.042	6.042	6.480	6.480	6.918	6.918
25°C	2.890	2.890	3.353	3.353	3.473	3.473	5.136	5.136	5.954	5.954	6.392	6.392	6.829	6.829
27°C	2.803	2.803	3.240	3.240	3.386	3.386	4.991	4.991	5.866	5.866	6.303	6.303	6.741	6.741
Frost Region														

Remark:

AFR: Air flow rate (CFM)

EWB: Entering Wet Bulb Temp. (°C)

EDB: Entering Dry Bulb Temp. (°C)

TC: Total Cooling / Heating Capacity (kW)

SC: Sensible Cooling / Heating Capacity (kW)

PI: Power Input (kW)

Notes:

1. Ratings shown are net capacities.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

Model: FLQN60EXV1 - RYN60CXV1

Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
490	16°C	21°C	5.53	3.86	1.50	5.33	3.76	1.62	5.13	3.66	1.75	4.93	3.55	1.90	4.52	3.31	2.06	4.18	3.11	2.27
		24°C	5.53	4.62	1.50	5.34	4.52	1.62	5.14	4.41	1.75	4.93	4.30	1.90	4.53	4.02	2.06	4.19	3.79	2.27
		27°C	5.58	5.24	1.50	5.39	5.12	1.62	5.20	5.00	1.76	5.01	4.87	1.91	4.62	4.54	2.07	4.30	4.26	2.28
		30°C	5.75	5.75	1.51	5.58	5.58	1.63	5.41	5.41	1.77	5.24	5.24	1.92	4.86	4.86	2.09	4.54	4.54	2.30
	19°C	24°C	6.09	3.60	1.52	5.88	3.51	1.65	5.67	3.42	1.78	5.44	3.32	1.93	5.00	3.10	2.10	4.62	2.91	2.31
		27°C	6.10	4.12	1.52	5.88	4.03	1.65	5.67	3.94	1.78	5.45	3.84	1.93	5.01	3.60	2.10	4.63	3.41	2.31
		30°C	6.11	5.09	1.52	5.90	4.98	1.65	5.69	4.87	1.79	5.47	4.75	1.94	5.04	4.45	2.10	4.68	4.21	2.32
		33°C	6.18	6.18	1.52	5.98	5.98	1.65	5.79	5.79	1.79	5.59	5.59	1.94	5.17	5.17	2.11	4.83	4.83	2.33
	22°C	27°C	6.71	3.53	1.55	6.47	3.44	1.68	6.24	3.36	1.82	5.99	3.26	1.97	5.51	3.04	2.14	5.10	2.87	2.36
		30°C	6.71	4.30	1.55	6.48	4.21	1.68	6.24	4.11	1.82	5.99	4.01	1.97	5.51	3.76	2.14	5.10	3.56	2.36
		33°C	6.71	5.02	1.55	6.48	4.93	1.68	6.24	4.83	1.82	6.00	4.73	1.97	5.52	4.44	2.14	5.12	4.22	2.36
		36°C	6.73	5.69	1.55	6.51	5.58	1.68	6.28	5.46	1.82	6.06	5.34	1.98	5.58	5.01	2.14	5.19	4.75	2.36
530	16°C	21°C	5.75	4.03	1.51	5.54	3.92	1.63	5.33	3.82	1.77	5.11	3.71	1.92	4.69	3.46	2.08	4.33	3.25	2.29
		24°C	5.77	4.89	1.51	5.56	4.77	1.63	5.35	4.66	1.77	5.13	4.54	1.92	4.72	4.24	2.08	4.36	4.00	2.30
		27°C	5.84	5.55	1.51	5.64	5.42	1.64	5.45	5.28	1.78	5.25	5.12	1.93	4.85	4.76	2.09	4.52	4.45	2.31
		30°C	6.08	6.08	1.53	5.90	5.90	1.65	5.72	5.72	1.79	5.54	5.54	1.95	5.13	5.13	2.11	4.80	4.80	2.33
	19°C	24°C	6.33	3.81	1.53	6.11	3.71	1.66	5.88	3.62	1.80	5.64	3.52	1.95	5.18	3.28	2.12	4.79	3.09	2.33
		27°C	6.34	4.39	1.54	6.12	4.29	1.66	5.89	4.19	1.80	5.65	4.09	1.95	5.19	3.83	2.12	4.80	3.62	2.33
		30°C	6.38	5.41	1.54	6.15	5.29	1.66	5.93	5.18	1.80	5.71	5.05	1.96	5.25	4.72	2.12	4.87	4.46	2.34
		33°C	6.48	6.48	1.54	6.28	6.28	1.67	6.08	6.08	1.81	5.88	5.88	1.97	5.45	5.45	2.14	5.09	5.09	2.36
	22°C	27°C	6.96	3.73	1.56	6.71	3.64	1.69	6.46	3.55	1.84	6.21	3.45	1.99	5.70	3.22	2.16	5.28	3.04	2.38
		30°C	6.97	4.58	1.56	6.72	4.48	1.69	6.47	4.38	1.84	6.21	4.28	1.99	5.71	4.01	2.16	5.28	3.80	2.38
		33°C	6.98	5.36	1.56	6.74	5.26	1.70	6.49	5.15	1.84	6.23	5.04	1.99	5.74	4.73	2.16	5.32	4.49	2.38
		36°C	7.02	6.06	1.57	6.80	5.95	1.70	6.56	5.82	1.84	6.32	5.69	2.00	5.83	5.32	2.17	5.44	5.02	2.39
580	16°C	21°C	5.96	4.20	1.52	5.74	4.09	1.65	5.52	3.99	1.78	5.29	3.87	1.93	4.86	3.61	2.10	4.48	3.40	2.31
		24°C	5.99	5.10	1.52	5.77	4.98	1.65	5.56	4.86	1.79	5.33	4.73	1.94	4.90	4.42	2.10	4.53	4.17	2.31
		27°C	6.09	5.85	1.53	5.89	5.70	1.65	5.69	5.54	1.79	5.49	5.37	1.95	5.07	4.97	2.11	4.73	4.64	2.33
		30°C	6.39	6.39	1.54	6.21	6.21	1.67	6.02	6.02	1.81	5.82	5.82	1.97	5.39	5.39	2.14	5.03	5.03	2.36
	19°C	24°C	6.56	4.03	1.55	6.32	3.93	1.68	6.08	3.83	1.82	5.84	3.73	1.97	5.36	3.47	2.13	4.95	3.28	2.35
		27°C	6.58	4.66	1.55	6.34	4.56	1.68	6.11	4.45	1.82	5.86	4.34	1.97	5.38	4.06	2.14	4.97	3.84	2.35
		30°C	6.64	5.74	1.55	6.40	5.61	1.68	6.17	5.48	1.82	5.93	5.35	1.97	5.46	4.99	2.14	5.07	4.71	2.36
		33°C	6.78	6.78	1.56	6.58	6.58	1.69	6.38	6.38	1.83	6.17	6.17	1.99	5.71	5.71	2.16	5.34	5.34	2.39
	22°C	27°C	7.20	3.94	1.58	6.94	3.86	1.71	6.68	3.76	1.85	6.41	3.66	2.01	5.89	3.42	2.18	5.45	3.23	2.40
		30°C	7.22	4.86	1.58	6.96	4.77	1.71	6.70	4.66	1.85	6.43	4.56	2.01	5.91	4.27	2.18	5.46	4.05	2.40
		33°C	7.24	5.70	1.58	6.99	5.60	1.71	6.73	5.48	1.86	6.47	5.36	2.01	5.95	5.02	2.18	5.51	4.77	2.40
		36°C	7.30	6.43	1.58	7.08	6.31	1.72	6.83	6.18	1.86	6.59	6.02	2.02	6.08	5.62	2.19	5.68	5.29	2.42

Model: FLQN60EXV1 - RYN60CXV1

Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	3.898	3.898	4.412	4.412	4.583	4.583	6.467	6.467	7.495	7.495	8.009	8.009	8.523	8.523
17°C	3.796	3.796	4.347	4.347	4.488	4.488	6.459	6.459	7.431	7.431	7.950	7.950	8.470	8.470
19°C	3.694	3.694	4.282	4.282	4.393	4.393	6.452	6.452	7.367	7.367	7.892	7.892	8.417	8.417
21°C	3.591	3.591	4.190	4.190	4.298	4.298	6.387	6.387	7.304	7.304	7.834	7.834	8.364	8.364
23°C	3.489	3.489	4.071	4.071	4.204	4.204	6.264	6.264	7.240	7.240	7.776	7.776	8.312	8.312
25°C	3.387	3.387	3.951	3.951	4.109	4.109	6.142	6.142	7.176	7.176	7.718	7.718	8.259	8.259
27°C	3.285	3.285	3.832	3.832	4.014	4.014	6.019	6.019	7.113	7.113	7.659	7.659	8.206	8.206
Frost Region														

Remark:

AFR: Air flow rate (CFM)

EWB: Entering Wet Bulb Temp. (°C)

EDB: Entering Dry Bulb Temp. (°C)

TC: Total Cooling / Heating Capacity (kW)

SC: Sensible Cooling / Heating Capacity (kW)

PI: Power Input (kW)

Notes:

1. Ratings shown are net capacities.

2. ■ shows nominal capacities.

3. Direct interpolation is permissible. Do not extrapolate.

4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

Model: FLQN60EXV1 - RYN60CXY1

Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
490	16°C	21°C	6.32	4.41	1.69	6.09	4.30	1.83	5.87	4.18	1.98	5.63	4.06	2.15	5.17	3.78	2.33	4.77	3.56	2.57
		24°C	6.33	5.28	1.69	6.10	5.16	1.83	5.88	5.04	1.99	5.64	4.92	2.15	5.18	4.59	2.34	4.79	4.33	2.57
		27°C	6.38	5.99	1.70	6.16	5.85	1.84	5.95	5.72	1.99	5.72	5.57	2.16	5.28	5.18	2.34	4.91	4.87	2.58
		30°C	6.57	6.57	1.71	6.38	6.38	1.85	6.19	6.19	2.00	5.99	5.99	2.17	5.55	5.55	2.36	5.20	5.20	2.61
	19°C	24°C	6.97	4.12	1.72	6.72	4.02	1.86	6.48	3.91	2.02	6.22	3.80	2.19	5.72	3.54	2.38	5.29	3.33	2.62
		27°C	6.97	4.71	1.72	6.73	4.61	1.86	6.48	4.50	2.02	6.23	4.39	2.19	5.72	4.11	2.38	5.29	3.89	2.62
		30°C	6.98	5.82	1.72	6.74	5.69	1.86	6.50	5.57	2.02	6.26	5.43	2.19	5.76	5.08	2.38	5.35	4.81	2.62
		33°C	7.07	7.07	1.73	6.84	6.84	1.87	6.62	6.62	2.03	6.39	6.39	2.20	5.91	5.91	2.39	5.53	5.53	2.64
	22°C	27°C	7.67	4.03	1.75	7.40	3.93	1.90	7.13	3.84	2.06	6.85	3.73	2.23	6.30	3.48	2.42	5.83	3.28	2.67
		30°C	7.67	4.91	1.75	7.40	4.81	1.90	7.13	4.70	2.06	6.85	4.59	2.23	6.30	4.30	2.42	5.84	4.07	2.67
		33°C	7.67	5.74	1.75	7.41	5.63	1.90	7.14	5.52	2.06	6.86	5.40	2.23	6.31	5.07	2.42	5.85	4.82	2.67
		36°C	7.70	6.51	1.75	7.44	6.38	1.90	7.19	6.24	2.06	6.92	6.11	2.24	6.39	5.73	2.43	5.94	5.43	2.68
530	16°C	21°C	6.57	4.60	1.71	6.34	4.48	1.85	6.10	4.36	2.00	5.85	4.24	2.17	5.36	3.95	2.35	4.95	3.72	2.60
		24°C	6.59	5.59	1.71	6.36	5.45	1.85	6.12	5.32	2.00	5.87	5.19	2.17	5.39	4.84	2.36	4.99	4.57	2.60
		27°C	6.67	6.34	1.71	6.45	6.20	1.85	6.23	6.04	2.01	6.00	5.86	2.18	5.54	5.44	2.37	5.16	5.09	2.61
		30°C	6.95	6.95	1.73	6.75	6.75	1.87	6.54	6.54	2.03	6.33	6.33	2.20	5.87	5.87	2.39	5.48	5.48	2.64
	19°C	24°C	7.24	4.35	1.74	6.98	4.24	1.88	6.72	4.13	2.04	6.45	4.02	2.21	5.92	3.75	2.40	5.47	3.53	2.64
		27°C	7.25	5.01	1.74	7.00	4.90	1.88	6.73	4.79	2.04	6.46	4.68	2.21	5.94	4.37	2.40	5.49	4.14	2.64
		30°C	7.29	6.19	1.74	7.04	6.05	1.88	6.78	5.92	2.04	6.52	5.77	2.21	6.01	5.40	2.40	5.57	5.10	2.65
		33°C	7.41	7.41	1.75	7.18	7.18	1.89	6.96	6.96	2.05	6.72	6.72	2.23	6.23	6.23	2.42	5.82	5.82	2.67
	22°C	27°C	7.96	4.26	1.77	7.68	4.16	1.92	7.39	4.06	2.08	7.10	3.95	2.25	6.52	3.68	2.44	6.03	3.47	2.69
		30°C	7.97	5.23	1.77	7.69	5.12	1.92	7.40	5.01	2.08	7.11	4.89	2.25	6.53	4.58	2.44	6.04	4.35	2.69
		33°C	7.98	6.13	1.77	7.70	6.01	1.92	7.42	5.89	2.08	7.13	5.76	2.26	6.56	5.41	2.45	6.08	5.13	2.70
		36°C	8.03	6.93	1.77	7.77	6.80	1.92	7.50	6.66	2.09	7.23	6.50	2.26	6.67	6.08	2.46	6.22	5.74	2.71
580	16°C	21°C	6.82	4.80	1.72	6.57	4.68	1.86	6.31	4.56	2.02	6.05	4.43	2.19	5.55	4.12	2.37	5.12	3.88	2.62
		24°C	6.85	5.83	1.73	6.60	5.70	1.87	6.35	5.56	2.02	6.10	5.41	2.19	5.60	5.05	2.38	5.17	4.76	2.62
		27°C	6.96	6.69	1.73	6.73	6.51	1.87	6.51	6.33	2.03	6.27	6.14	2.20	5.80	5.68	2.39	5.40	5.31	2.64
		30°C	7.31	7.31	1.75	7.10	7.10	1.89	6.88	6.88	2.05	6.65	6.65	2.23	6.16	6.16	2.42	5.75	5.75	2.67
	19°C	24°C	7.50	4.61	1.75	7.23	4.49	1.90	6.96	4.38	2.05	6.67	4.26	2.23	6.12	3.97	2.42	5.65	3.74	2.66
		27°C	7.52	5.33	1.75	7.25	5.21	1.90	6.98	5.08	2.06	6.70	4.96	2.23	6.15	4.64	2.42	5.69	4.39	2.66
		30°C	7.59	6.56	1.76	7.32	6.41	1.90	7.06	6.27	2.06	6.79	6.11	2.24	6.25	5.71	2.43	5.80	5.38	2.67
		33°C	7.75	7.75	1.76	7.52	7.52	1.91	7.29	7.29	2.08	7.05	7.05	2.25	6.53	6.53	2.45	6.11	6.11	2.70
	22°C	27°C	8.23	4.50	1.79	7.94	4.41	1.93	7.64	4.30	2.10	7.33	4.18	2.27	6.74	3.90	2.46	6.23	3.69	2.71
		30°C	8.25	5.55	1.79	7.96	5.45	1.93	7.66	5.33	2.10	7.35	5.21	2.27	6.75	4.88	2.47	6.24	4.62	2.72
		33°C	8.28	6.51	1.79	7.99	6.40	1.94	7.70	6.26	2.10	7.40	6.12	2.28	6.80	5.74	2.47	6.30	5.45	2.72
		36°C	8.35	7.35	1.79	8.09	7.22	1.94	7.81	7.06	2.11	7.53	6.88	2.29	6.96	6.42	2.48	6.49	6.04	2.74

Model: FLQN60EXV1 - RYN60CXY1

Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	4.110	4.110	4.652	4.652	4.833	4.833	6.820	6.820	7.904	7.904	8.446	8.446	8.987	8.987
17°C	4.003	4.003	4.538	4.538	4.724	4.724	6.812	6.812	7.790	7.790	8.331	8.331	8.872	8.872
19°C	3.895	3.895	4.424	4.424	4.615	4.615	6.804	6.804	7.676	7.676	8.216	8.216	8.756	8.756
21°C	3.787	3.787	4.315	4.315	4.506	4.506	6.706	6.706	7.562	7.562	8.102	8.102	8.641	8.641
23°C	3.679	3.679	4.210	4.210	4.397	4.397	6.520	6.520	7.448	7.448	7.987	7.987	8.525	8.525
25°C	3.572	3.572	4.105	4.105	4.288	4.288	6.334	6.334	7.335	7.335	7.872	7.872	8.410	8.410
27°C	3.464	3.464	4.001	4.001	4.180	4.180	6.147	6.147	7.221	7.221	7.758	7.758	8.294	8.294
Frost Region														

Remark:

AFR: Air flow rate (CFM)

EWB: Entering Wet Bulb Temp. (°C)

EDB: Entering Dry Bulb Temp. (°C)

TC: Total Cooling / Heating Capacity (kW)

SC: Sensible Cooling / Heating Capacity (kW)

PI: Power Input (kW)

Notes:

1. Ratings shown are net capacities.

2. ■ shows nominal capacities.

3. Direct interpolation is permissible. Do not extrapolate.

4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

Model: FLQN71EXV1 - RQ71CXV1

Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
460	16°C	21°C	7.45	4.99	2.09	7.18	4.86	2.26	6.92	4.73	2.45	6.64	4.59	2.66	6.10	4.27	2.88	5.63	4.02	3.18
		24°C	7.46	5.97	2.09	7.19	5.84	2.26	6.93	5.70	2.45	6.65	5.56	2.66	6.11	5.19	2.88	5.65	4.90	3.18
		27°C	7.52	6.77	2.10	7.27	6.62	2.27	7.01	6.46	2.46	6.75	6.30	2.66	6.23	5.86	2.89	5.79	5.50	3.19
		30°C	7.75	7.75	2.11	7.53	7.53	2.28	7.30	7.30	2.47	7.06	7.06	2.68	6.55	6.55	2.92	6.12	6.12	3.22
	19°C	24°C	8.22	4.66	2.12	7.93	4.54	2.30	7.64	4.42	2.49	7.33	4.29	2.70	6.74	4.00	2.93	6.23	3.77	3.23
		27°C	8.22	5.33	2.13	7.93	5.21	2.30	7.64	5.09	2.49	7.34	4.97	2.70	6.75	4.65	2.93	6.24	4.40	3.23
		30°C	8.23	6.58	2.13	7.95	6.44	2.30	7.67	6.29	2.49	7.38	6.14	2.71	6.79	5.74	2.94	6.30	5.44	3.24
		33°C	8.33	8.33	2.13	8.06	8.06	2.31	7.80	7.80	2.50	7.53	7.53	2.72	6.97	6.97	2.95	6.52	6.52	3.26
	22°C	27°C	9.04	4.56	2.16	8.73	4.45	2.34	8.41	4.34	2.54	8.08	4.22	2.76	7.43	3.93	2.99	6.88	3.71	3.29
		30°C	9.04	5.56	2.16	8.73	5.44	2.34	8.41	5.31	2.54	8.08	5.19	2.76	7.43	4.86	2.99	6.88	4.61	3.29
		33°C	9.05	6.49	2.16	8.73	6.37	2.34	8.41	6.24	2.54	8.09	6.11	2.76	7.44	5.74	2.99	6.90	5.45	3.30
		36°C	9.08	7.36	2.17	8.78	7.21	2.35	8.47	7.06	2.55	8.16	6.90	2.76	7.53	6.47	3.00	7.00	6.14	3.30
560	16°C	21°C	7.75	5.20	2.11	7.47	5.07	2.28	7.19	4.94	2.47	6.89	4.80	2.68	6.33	4.47	2.91	5.84	4.20	3.20
		24°C	7.77	6.32	2.11	7.49	6.17	2.28	7.21	6.02	2.47	6.92	5.87	2.68	6.36	5.48	2.91	5.88	5.17	3.21
		27°C	7.87	7.17	2.12	7.60	7.01	2.29	7.34	6.83	2.48	7.08	6.62	2.69	6.53	6.15	2.92	6.09	5.76	3.23
		30°C	8.20	8.20	2.13	7.96	7.96	2.31	7.72	7.72	2.50	7.46	7.46	2.72	6.92	6.92	2.95	6.46	6.46	3.26
	19°C	24°C	8.54	4.92	2.14	8.23	4.80	2.32	7.93	4.67	2.52	7.61	4.55	2.73	6.99	4.24	2.96	6.45	3.99	3.26
		27°C	8.55	5.67	2.15	8.25	5.55	2.32	7.94	5.42	2.52	7.62	5.29	2.73	7.00	4.95	2.96	6.47	4.68	3.26
		30°C	8.59	7.00	2.15	8.30	6.84	2.33	8.00	6.69	2.52	7.69	6.53	2.73	7.08	6.10	2.97	6.57	5.77	3.27
		33°C	8.74	8.74	2.16	8.47	8.47	2.34	8.20	8.20	2.53	7.93	7.93	2.75	7.34	7.34	2.99	6.87	6.87	3.30
	22°C	27°C	9.38	4.82	2.18	9.05	4.71	2.37	8.71	4.59	2.57	8.37	4.46	2.78	7.69	4.16	3.02	7.11	3.93	3.32
		30°C	9.39	5.92	2.19	9.06	5.79	2.37	8.72	5.66	2.57	8.38	5.53	2.78	7.70	5.18	3.02	7.12	4.92	3.32
		33°C	9.41	6.93	2.19	9.08	6.80	2.37	8.75	6.66	2.57	8.40	6.52	2.79	7.73	6.11	3.02	7.17	5.81	3.33
		36°C	9.47	7.84	2.19	9.16	7.69	2.37	8.84	7.53	2.57	8.52	7.35	2.79	7.86	6.88	3.03	7.33	6.49	3.34
640	16°C	21°C	8.04	5.43	2.13	7.74	5.29	2.30	7.45	5.15	2.49	7.14	5.01	2.70	6.55	4.67	2.93	6.03	4.39	3.23
		24°C	8.08	6.60	2.13	7.79	6.44	2.30	7.49	6.28	2.50	7.19	6.12	2.71	6.60	5.71	2.93	6.10	5.38	3.23
		27°C	8.21	7.56	2.14	7.94	7.37	2.31	7.67	7.16	2.51	7.40	6.94	2.72	6.84	6.43	2.95	6.37	6.00	3.26
		30°C	8.62	8.62	2.15	8.37	8.37	2.33	8.11	8.11	2.53	7.84	7.84	2.75	7.26	7.26	2.99	6.78	6.78	3.30
	19°C	24°C	8.85	5.21	2.16	8.53	5.08	2.34	8.20	4.95	2.54	7.87	4.82	2.75	7.22	4.49	2.98	6.67	4.23	3.29
		27°C	8.87	6.03	2.16	8.55	5.89	2.34	8.23	5.75	2.54	7.90	5.61	2.75	7.25	5.25	2.99	6.70	4.96	3.29
		30°C	8.95	7.42	2.17	8.63	7.25	2.35	8.32	7.09	2.54	8.00	6.91	2.76	7.37	6.45	2.99	6.84	6.08	3.30
		33°C	9.14	9.14	2.18	8.87	8.87	2.36	8.60	8.60	2.56	8.32	8.32	2.78	7.70	7.70	3.02	7.20	7.20	3.34
	22°C	27°C	9.71	5.10	2.20	9.36	4.98	2.39	9.01	4.86	2.59	8.65	4.73	2.81	7.94	4.41	3.04	7.34	4.17	3.35
		30°C	9.73	6.28	2.20	9.38	6.16	2.39	9.03	6.03	2.59	8.67	5.89	2.81	7.96	5.52	3.04	7.36	5.23	3.35
		33°C	9.76	7.36	2.21	9.42	7.23	2.39	9.08	7.08	2.59	8.72	6.92	2.81	8.02	6.49	3.05	7.43	6.16	3.36
		36°C	9.85	8.31	2.21	9.54	8.16	2.40	9.21	7.98	2.60	8.88	7.78	2.82	8.20	7.26	3.06	7.65	6.84	3.38

Model: FLQN71EXV1 - RQ71CXV1

Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	4.881	4.881	5.525	5.525	5.739	5.739	8.099	8.099	9.386	9.386	10.029	10.029	10.673	10.673
17°C	4.753	4.753	5.659	5.659	5.624	5.624	8.089	8.089	9.324	9.324	9.977	9.977	10.631	10.631
19°C	4.625	4.625	5.794	5.794	5.509	5.509	8.079	8.079	9.263	9.263	9.926	9.926	10.589	10.589
21°C	4.497	4.497	5.712	5.712	5.394	5.394	8.009	8.009	9.202	9.202	9.874	9.874	10.547	10.547
23°C	4.369	4.369	5.413	5.413	5.278	5.278	7.879	7.879	9.141	9.141	9.823	9.823	10.505	10.505
25°C	4.241	4.241	5.114	5.114	5.163	5.163	7.748	7.748	9.080	9.080	9.771	9.771	10.463	10.463
27°C	4.113	4.113	4.814	4.814	5.048	5.048	7.617	7.617	9.019	9.019	9.720	9.720	10.421	10.421
Frost Region														

Remark:

AFR: Air flow rate (CFM)

EWB: Entering Wet Bulb Temp. (°C)

EDB: Entering Dry Bulb Temp. (°C)

TC: Total Cooling / Heating Capacity (kW)

SC: Sensible Cooling / Heating Capacity (kW)

PI: Power Input (kW)

Notes:

1. Ratings shown are net capacities.

2. ■ shows nominal capacities.

3. Direct interpolation is permissible. Do not extrapolate.

4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

Model: FLQN71EXV1 - RQ71CXY1

Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
460	16°C	21°C	7.18	4.81	2.06	6.93	4.69	2.23	6.67	4.56	2.42	6.40	4.43	2.62	5.88	4.12	2.84	5.43	3.88	3.13
		24°C	7.19	5.76	2.06	6.94	5.63	2.23	6.68	5.50	2.42	6.41	5.36	2.62	5.89	5.01	2.84	5.45	4.72	3.13
		27°C	7.25	6.53	2.07	7.01	6.38	2.24	6.76	6.23	2.42	6.51	6.07	2.63	6.00	5.65	2.85	5.59	5.31	3.15
		30°C	7.47	7.47	2.08	7.26	7.26	2.25	7.04	7.04	2.44	6.81	6.81	2.65	6.31	6.31	2.88	5.91	5.91	3.18
	19°C	24°C	7.92	4.49	2.10	7.65	4.38	2.27	7.37	4.26	2.46	7.07	4.14	2.67	6.50	3.86	2.89	6.01	3.63	3.19
		27°C	7.93	5.14	2.10	7.65	5.02	2.27	7.37	4.91	2.46	7.08	4.79	2.67	6.51	4.48	2.89	6.02	4.24	3.19
		30°C	7.94	6.34	2.10	7.67	6.21	2.27	7.40	6.07	2.46	7.12	5.92	2.67	6.55	5.54	2.90	6.08	5.24	3.19
		33°C	8.04	8.04	2.10	7.77	7.77	2.28	7.52	7.52	2.47	7.27	7.27	2.68	6.72	6.72	2.91	6.28	6.28	3.21
	22°C	27°C	8.72	4.40	2.13	8.42	4.29	2.31	8.11	4.18	2.51	7.79	4.07	2.72	7.17	3.79	2.95	6.63	3.57	3.25
		30°C	8.72	5.36	2.13	8.42	5.24	2.31	8.11	5.12	2.51	7.79	5.00	2.72	7.17	4.68	2.95	6.64	4.44	3.25
		33°C	8.73	6.26	2.13	8.42	6.14	2.31	8.12	6.02	2.51	7.80	5.89	2.72	7.18	5.53	2.95	6.65	5.25	3.25
		36°C	8.75	7.10	2.14	8.46	6.95	2.31	8.17	6.81	2.51	7.87	6.66	2.72	7.26	6.24	2.96	6.75	5.92	3.26
560	16°C	21°C	7.48	5.02	2.08	7.21	4.89	2.25	6.93	4.76	2.44	6.65	4.63	2.64	6.10	4.31	2.87	5.63	4.05	3.16
		24°C	7.50	6.09	2.08	7.23	5.95	2.25	6.96	5.81	2.44	6.68	5.66	2.65	6.13	5.28	2.87	5.67	4.98	3.16
		27°C	7.59	6.92	2.09	7.33	6.76	2.26	7.08	6.58	2.45	6.83	6.39	2.66	6.30	5.93	2.88	5.87	5.55	3.18
		30°C	7.90	7.90	2.10	7.68	7.68	2.28	7.44	7.44	2.47	7.20	7.20	2.68	6.67	6.67	2.91	6.24	6.24	3.22
	19°C	24°C	8.24	4.75	2.12	7.94	4.63	2.29	7.64	4.51	2.48	7.34	4.38	2.69	6.74	4.09	2.92	6.22	3.85	3.21
		27°C	8.25	5.47	2.12	7.96	5.35	2.29	7.66	5.23	2.48	7.35	5.10	2.69	6.75	4.77	2.92	6.24	4.52	3.22
		30°C	8.29	6.75	2.12	8.00	6.60	2.29	7.71	6.45	2.49	7.42	6.29	2.70	6.83	5.89	2.93	6.34	5.56	3.23
		33°C	8.43	8.43	2.13	8.17	8.17	2.30	7.91	7.91	2.50	7.65	7.65	2.71	7.08	7.08	2.95	6.62	6.62	3.25
	22°C	27°C	9.05	4.65	2.15	8.73	4.54	2.33	8.41	4.42	2.53	8.07	4.31	2.74	7.42	4.02	2.98	6.86	3.79	3.28
		30°C	9.06	5.70	2.16	8.74	5.59	2.33	8.41	5.46	2.53	8.08	5.33	2.74	7.43	5.00	2.98	6.87	4.74	3.28
		33°C	9.08	6.68	2.16	8.76	6.56	2.34	8.44	6.42	2.53	8.11	6.29	2.75	7.46	5.90	2.98	6.91	5.60	3.28
		36°C	9.13	7.56	2.16	8.84	7.41	2.34	8.53	7.26	2.54	8.22	7.09	2.75	7.58	6.63	2.99	7.07	6.26	3.30
640	16°C	21°C	7.75	5.24	2.10	7.47	5.10	2.27	7.18	4.97	2.46	6.88	4.83	2.66	6.31	4.50	2.89	5.82	4.23	3.18
		24°C	7.79	6.36	2.10	7.51	6.21	2.27	7.23	6.06	2.46	6.94	5.90	2.67	6.37	5.51	2.89	5.88	5.19	3.19
		27°C	7.92	7.29	2.11	7.66	7.10	2.28	7.40	6.91	2.47	7.14	6.69	2.68	6.59	6.20	2.91	6.14	5.79	3.21
		30°C	8.31	8.31	2.13	8.07	8.07	2.30	7.82	7.82	2.50	7.57	7.57	2.71	7.01	7.01	2.95	6.54	6.54	3.25
	19°C	24°C	8.53	5.02	2.13	8.22	4.90	2.31	7.91	4.77	2.50	7.59	4.64	2.71	6.96	4.33	2.94	6.43	4.08	3.24
		27°C	8.56	5.81	2.13	8.25	5.68	2.31	7.94	5.55	2.50	7.62	5.41	2.72	7.00	5.06	2.94	6.47	4.79	3.24
		30°C	8.63	7.15	2.14	8.32	7.00	2.32	8.02	6.84	2.51	7.72	6.66	2.72	7.11	6.22	2.95	6.60	5.87	3.26
		33°C	8.82	8.82	2.15	8.56	8.56	2.33	8.29	8.29	2.53	8.02	8.02	2.74	7.43	7.43	2.98	6.95	6.95	3.29
	22°C	27°C	9.36	4.91	2.17	9.03	4.81	2.35	8.69	4.69	2.55	8.34	4.56	2.77	7.66	4.26	3.00	7.08	4.02	3.30
		30°C	9.38	6.06	2.17	9.05	5.94	2.36	8.71	5.81	2.55	8.36	5.68	2.77	7.68	5.32	3.00	7.10	5.04	3.31
		33°C	9.41	7.10	2.18	9.09	6.98	2.36	8.75	6.83	2.56	8.41	6.68	2.77	7.74	6.26	3.01	7.17	5.94	3.31
		36°C	9.50	8.02	2.18	9.20	7.87	2.37	8.88	7.70	2.57	8.56	7.51	2.78	7.91	7.00	3.02	7.38	6.59	3.33

Model: FLQN71EXV1 - RQ71CXY1

Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	4.713	4.713	5.334	5.334	5.541	5.541	7.819	7.819	9.062	9.062	9.683	9.683	10.304	10.304
17°C	4.589	4.589	5.545	5.545	5.424	5.424	7.810	7.810	8.971	8.971	9.597	9.597	10.223	10.223
19°C	4.466	4.466	5.756	5.756	5.307	5.307	7.801	7.801	8.881	8.881	9.512	9.512	10.142	10.142
21°C	4.342	4.342	5.684	5.684	5.190	5.190	7.714	7.714	8.790	8.790	9.426	9.426	10.061	10.061
23°C	4.219	4.219	5.330	5.330	5.072	5.072	7.549	7.549	8.700	8.700	9.340	9.340	9.980	9.980
25°C	4.095	4.095	4.976	4.976	4.955	4.955	7.384	7.384	8.610	8.610	9.254	9.254	9.899	9.899
27°C	3.972	3.972	4.621	4.621	4.838	4.838	7.220	7.220	8.519	8.519	9.169	9.169	9.818	9.818
Frost Region														

Remark:

AFR: Air flow rate (CFM)

EWB: Entering Wet Bulb Temp. (°C)

EDB: Entering Dry Bulb Temp. (°C)

TC: Total Cooling / Heating Capacity (kW)

SC: Sensible Cooling / Heating Capacity (kW)

PI: Power Input (kW)

Notes:

1. Ratings shown are net capacities.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

Model: FLQN90EXV1 - RQ90DXV1

Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
669	16°C	21°C	8.49	6.01	2.17	8.19	5.85	2.34	7.88	5.69	2.54	7.57	5.53	2.75	6.95	5.14	2.98	6.41	4.84	3.29
		24°C	8.50	7.19	2.17	8.20	7.03	2.34	7.89	6.86	2.54	7.58	6.69	2.75	6.96	6.25	2.99	6.44	5.90	3.29
		27°C	8.57	8.15	2.17	8.28	7.97	2.35	7.99	7.78	2.54	7.69	7.58	2.76	7.09	7.06	2.99	6.60	6.60	3.30
		30°C	8.83	8.83	2.18	8.58	8.58	2.36	8.32	8.32	2.56	8.05	8.05	2.78	7.46	7.46	3.02	6.98	6.98	3.33
	19°C	24°C	9.36	5.61	2.20	9.03	5.46	2.38	8.70	5.32	2.58	8.36	5.17	2.80	7.68	4.81	3.04	7.10	4.53	3.35
		27°C	9.37	6.42	2.20	9.04	6.27	2.38	8.71	6.13	2.58	8.36	5.98	2.80	7.69	5.59	3.04	7.11	5.30	3.35
		30°C	9.38	7.92	2.20	9.06	7.75	2.38	8.74	7.58	2.58	8.41	7.39	2.80	7.74	6.91	3.04	7.18	6.54	3.35
		33°C	9.49	9.49	2.21	9.18	9.18	2.39	8.89	8.89	2.59	8.58	8.58	2.81	7.94	7.94	3.05	7.42	7.42	3.37
	22°C	27°C	10.30	5.49	2.24	9.94	5.36	2.43	9.58	5.22	2.63	9.21	5.08	2.85	8.47	4.73	3.09	7.84	4.46	3.41
		30°C	10.30	6.69	2.24	9.95	6.55	2.43	9.58	6.40	2.63	9.21	6.24	2.85	8.47	5.85	3.10	7.84	5.54	3.41
		33°C	10.31	7.81	2.24	9.95	7.66	2.43	9.59	7.51	2.63	9.21	7.35	2.85	8.48	6.90	3.10	7.86	6.56	3.41
		36°C	10.34	8.86	2.24	10.00	8.68	2.43	9.65	8.50	2.64	9.30	8.31	2.86	8.58	7.79	3.10	7.98	7.39	3.42
753	16°C	21°C	8.83	6.26	2.18	8.51	6.10	2.36	8.19	5.94	2.56	7.85	5.77	2.77	7.21	5.37	3.01	6.65	5.06	3.32
		24°C	8.86	7.60	2.19	8.54	7.42	2.36	8.22	7.25	2.56	7.89	7.06	2.78	7.25	6.59	3.01	6.70	6.22	3.32
		27°C	8.96	8.63	2.19	8.66	8.43	2.37	8.36	8.22	2.57	8.06	7.97	2.79	7.44	7.40	3.03	6.93	6.93	3.34
		30°C	9.34	9.34	2.21	9.07	9.07	2.39	8.79	8.79	2.59	8.50	8.50	2.81	7.88	7.88	3.06	7.37	7.37	3.38
	19°C	24°C	9.73	5.92	2.22	9.38	5.78	2.40	9.03	5.63	2.60	8.67	5.47	2.82	7.96	5.10	3.06	7.35	4.80	3.37
		27°C	9.74	6.82	2.22	9.40	6.67	2.40	9.05	6.52	2.61	8.68	6.37	2.83	7.98	5.95	3.06	7.37	5.64	3.38
		30°C	9.79	8.42	2.22	9.45	8.24	2.41	9.11	8.05	2.61	8.76	7.85	2.83	8.07	7.34	3.07	7.49	6.94	3.39
		33°C	9.95	9.95	2.23	9.65	9.65	2.42	9.34	9.34	2.62	9.03	9.03	2.85	8.37	8.37	3.09	7.82	7.82	3.42
	22°C	27°C	10.69	5.80	2.26	10.31	5.66	2.45	9.93	5.52	2.66	9.53	5.37	2.88	8.76	5.01	3.12	8.10	4.73	3.44
		30°C	10.70	7.12	2.26	10.32	6.97	2.45	9.94	6.81	2.66	9.54	6.66	2.88	8.77	6.23	3.12	8.11	5.92	3.44
		33°C	10.72	8.34	2.26	10.35	8.18	2.45	9.97	8.01	2.66	9.58	7.84	2.88	8.81	7.36	3.13	8.17	6.99	3.45
		36°C	10.79	9.43	2.27	10.44	9.25	2.46	10.07	9.06	2.66	9.71	8.85	2.89	8.96	8.28	3.14	8.35	7.81	3.46
840	16°C	21°C	9.16	6.53	2.20	8.82	6.37	2.38	8.48	6.20	2.58	8.13	6.03	2.80	7.46	5.61	3.03	6.87	5.28	3.34
		24°C	9.20	7.94	2.21	8.87	7.75	2.39	8.54	7.56	2.58	8.19	7.36	2.80	7.52	6.87	3.04	6.95	6.48	3.35
		27°C	9.35	9.10	2.21	9.05	8.86	2.39	8.74	8.62	2.59	8.43	8.35	2.82	7.79	7.73	3.06	7.26	7.22	3.37
		30°C	9.82	9.82	2.23	9.53	9.53	2.42	9.24	9.24	2.62	8.94	8.94	2.85	8.27	8.27	3.09	7.73	7.73	3.41
	19°C	24°C	10.08	6.27	2.24	9.71	6.11	2.42	9.34	5.96	2.63	8.96	5.79	2.85	8.23	5.40	3.09	7.59	5.09	3.40
		27°C	10.11	7.25	2.24	9.74	7.09	2.43	9.38	6.92	2.63	9.00	6.75	2.85	8.26	6.31	3.09	7.64	5.97	3.41
		30°C	10.19	8.92	2.25	9.83	8.73	2.43	9.48	8.53	2.63	9.12	8.32	2.86	8.39	7.77	3.10	7.79	7.32	3.42
		33°C	10.41	10.41	2.26	10.11	10.11	2.44	9.80	9.80	2.65	9.47	9.47	2.88	8.78	8.78	3.13	8.21	8.21	3.45
	22°C	27°C	11.06	6.13	2.28	10.67	6.00	2.47	10.26	5.85	2.68	9.85	5.69	2.90	9.05	5.31	3.15	8.36	5.02	3.47
		30°C	11.08	7.56	2.28	10.69	7.42	2.47	10.28	7.25	2.68	9.87	7.09	2.91	9.07	6.64	3.15	8.39	6.29	3.47
		33°C	11.12	8.86	2.28	10.74	8.70	2.48	10.34	8.52	2.68	9.93	8.33	2.91	9.14	7.81	3.16	8.47	7.41	3.48
		36°C	11.22	10.00	2.29	10.87	9.82	2.48	10.49	9.60	2.69	10.11	9.37	2.92	9.35	8.74	3.17	8.72	8.22	3.50

Model: FLQN90EXV1 - RQ90DXV1

Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	5.670	5.670	6.417	6.417	6.666	6.666	9.407	9.407	10.902	10.902	11.649	11.649	12.396	12.396
17°C	5.521	5.521	6.484	6.484	6.501	6.501	9.396	9.396	10.667	10.667	11.403	11.403	12.138	12.138
19°C	5.372	5.372	6.550	6.550	6.336	6.336	9.384	9.384	10.433	10.433	11.156	11.156	11.879	11.879
21°C	5.224	5.224	6.422	6.422	6.171	6.171	9.203	9.203	10.199	10.199	10.910	10.910	11.621	11.621
23°C	5.075	5.075	6.099	6.099	6.007	6.007	8.852	8.852	9.965	9.965	10.664	10.664	11.362	11.362
25°C	4.926	4.926	5.775	5.775	5.842	5.842	8.500	8.500	9.731	9.731	10.418	10.418	11.104	11.104
27°C	4.778	4.778	5.452	5.452	5.677	5.677	8.149	8.149	9.497	9.497	10.171	10.171	10.846	10.846
Frost Region														

Remark:

AFR: Air flow rate (CFM)

EWB: Entering Wet Bulb Temp. (°C)

EDB: Entering Dry Bulb Temp. (°C)

TC: Total Cooling / Heating Capacity (kW)

SC: Sensible Cooling / Heating Capacity (kW)

PI: Power Input (kW)

Notes:

1. Ratings shown are net capacities.

2. ■ shows nominal capacities.

3. Direct interpolation is permissible. Do not extrapolate.

4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

Model: FLQN90EXV1 - RQ90DX1

Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
669	16°C	21°C	8.49	6.01	2.05	8.19	5.85	2.22	7.88	5.69	2.41	7.57	5.53	2.61	6.95	5.14	2.83	6.41	4.84	3.12
		24°C	8.50	7.19	2.05	8.20	7.03	2.22	7.89	6.86	2.41	7.58	6.69	2.61	6.96	6.25	2.83	6.44	5.90	3.12
		27°C	8.57	8.15	2.06	8.28	7.97	2.23	7.99	7.78	2.41	7.69	7.58	2.62	7.09	7.06	2.84	6.60	6.60	3.13
		30°C	8.83	8.83	2.07	8.58	8.58	2.24	8.32	8.32	2.43	8.05	8.05	2.64	7.46	7.46	2.86	6.98	6.98	3.16
	19°C	24°C	9.36	5.61	2.09	9.03	5.46	2.26	8.70	5.32	2.45	8.36	5.17	2.65	7.68	4.81	2.88	7.10	4.53	3.17
		27°C	9.37	6.42	2.09	9.04	6.27	2.26	8.71	6.13	2.45	8.36	5.98	2.65	7.69	5.59	2.88	7.11	5.30	3.17
		30°C	9.38	7.92	2.09	9.06	7.75	2.26	8.74	7.58	2.45	8.41	7.39	2.66	7.74	6.91	2.88	7.18	6.54	3.18
		33°C	9.49	9.49	2.09	9.18	9.18	2.27	8.89	8.89	2.46	8.58	8.58	2.67	7.94	7.94	2.90	7.42	7.42	3.20
	22°C	27°C	10.30	5.49	2.12	9.94	5.36	2.30	9.58	5.22	2.49	9.21	5.08	2.71	8.47	4.73	2.94	7.84	4.46	3.23
		30°C	10.30	6.69	2.12	9.95	6.55	2.30	9.58	6.40	2.49	9.21	6.24	2.71	8.47	5.85	2.94	7.84	5.54	3.23
		33°C	10.31	7.81	2.12	9.95	7.66	2.30	9.59	7.51	2.50	9.21	7.35	2.71	8.48	6.90	2.94	7.86	6.56	3.24
		36°C	10.34	8.86	2.13	10.00	8.68	2.30	9.65	8.50	2.50	9.30	8.31	2.71	8.58	7.79	2.94	7.98	7.39	3.24
753	16°C	21°C	8.83	6.26	2.07	8.51	6.10	2.24	8.19	5.94	2.43	7.85	5.77	2.63	7.21	5.37	2.85	6.65	5.06	3.15
		24°C	8.86	7.60	2.07	8.54	7.42	2.24	8.22	7.25	2.43	7.89	7.06	2.63	7.25	6.59	2.86	6.70	6.22	3.15
		27°C	8.96	8.63	2.08	8.66	8.43	2.25	8.36	8.22	2.44	8.06	7.97	2.64	7.44	7.40	2.87	6.93	6.93	3.17
		30°C	9.34	9.34	2.09	9.07	9.07	2.27	8.79	8.79	2.46	8.50	8.50	2.67	7.88	7.88	2.90	7.37	7.37	3.20
	19°C	24°C	9.73	5.92	2.11	9.38	5.78	2.28	9.03	5.63	2.47	8.67	5.47	2.68	7.96	5.10	2.90	7.35	4.80	3.20
		27°C	9.74	6.82	2.11	9.40	6.67	2.28	9.05	6.52	2.47	8.68	6.37	2.68	7.98	5.95	2.91	7.37	5.64	3.20
		30°C	9.79	8.42	2.11	9.45	8.24	2.28	9.11	8.05	2.47	8.76	7.85	2.68	8.07	7.34	2.91	7.49	6.94	3.21
		33°C	9.95	9.95	2.12	9.65	9.65	2.29	9.34	9.34	2.49	9.03	9.03	2.70	8.37	8.37	2.93	7.82	7.82	3.24
	22°C	27°C	10.69	5.80	2.15	10.31	5.66	2.32	9.93	5.52	2.52	9.53	5.37	2.73	8.76	5.01	2.96	8.10	4.73	3.26
		30°C	10.70	7.12	2.15	10.32	6.97	2.32	9.94	6.81	2.52	9.54	6.66	2.73	8.77	6.23	2.96	8.11	5.92	3.26
		33°C	10.72	8.34	2.15	10.35	8.18	2.33	9.97	8.01	2.52	9.58	7.84	2.73	8.81	7.36	2.97	8.17	6.99	3.27
		36°C	10.79	9.43	2.15	10.44	9.25	2.33	10.07	9.06	2.53	9.71	8.85	2.74	8.96	8.28	2.98	8.35	7.81	3.28
840	16°C	21°C	9.16	6.53	2.09	8.82	6.37	2.26	8.48	6.20	2.45	8.13	6.03	2.65	7.46	5.61	2.88	6.87	5.28	3.17
		24°C	9.20	7.94	2.09	8.87	7.75	2.26	8.54	7.56	2.45	8.19	7.36	2.66	7.52	6.87	2.88	6.95	6.48	3.18
		27°C	9.35	9.10	2.10	9.05	8.86	2.27	8.74	8.62	2.46	8.43	8.35	2.67	7.79	7.73	2.90	7.26	7.22	3.20
		30°C	9.82	9.82	2.12	9.53	9.53	2.29	9.24	9.24	2.49	8.94	8.94	2.70	8.27	8.27	2.93	7.73	7.73	3.24
	19°C	24°C	10.08	6.27	2.12	9.71	6.11	2.30	9.34	5.96	2.49	8.96	5.79	2.70	8.23	5.40	2.93	7.59	5.09	3.23
		27°C	10.11	7.25	2.12	9.74	7.09	2.30	9.38	6.92	2.49	9.00	6.75	2.70	8.26	6.31	2.93	7.64	5.97	3.23
		30°C	10.19	8.92	2.13	9.83	8.73	2.31	9.48	8.53	2.50	9.12	8.32	2.71	8.39	7.77	2.94	7.79	7.32	3.24
		33°C	10.41	10.41	2.14	10.11	10.11	2.32	9.80	9.80	2.52	9.47	9.47	2.73	8.78	8.78	2.97	8.21	8.21	3.28
	22°C	27°C	11.06	6.13	2.16	10.67	6.00	2.34	10.26	5.85	2.54	9.85	5.69	2.75	9.05	5.31	2.99	8.36	5.02	3.29
		30°C	11.08	7.56	2.16	10.69	7.42	2.34	10.28	7.25	2.54	9.87	7.09	2.76	9.07	6.64	2.99	8.39	6.29	3.29
		33°C	11.12	8.86	2.17	10.74	8.70	2.35	10.34	8.52	2.55	9.93	8.33	2.76	9.14	7.81	2.99	8.47	7.41	3.30
		36°C	11.22	10.00	2.17	10.87	9.82	2.35	10.49	9.60	2.55	10.11	9.37	2.77	9.35	8.74	3.01	8.72	8.22	3.32

Model: FLQN90EXV1 - RQ90DX1

Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	6.006	6.006	6.798	6.798	7.062	7.062	9.965	9.965	11.549	11.549	12.341	12.341	13.132	13.132
17°C	5.849	5.849	6.817	6.817	6.885	6.885	9.953	9.953	11.289	11.289	12.067	12.067	12.844	12.844
19°C	5.691	5.691	6.836	6.836	6.708	6.708	9.941	9.941	11.030	11.030	11.793	11.793	12.555	12.555
21°C	5.534	5.534	6.692	6.692	6.531	6.531	9.742	9.742	10.771	10.771	11.519	11.519	12.267	12.267
23°C	5.376	5.376	6.383	6.383	6.355	6.355	9.356	9.356	10.511	10.511	11.245	11.245	11.978	11.978
25°C	5.219	5.219	6.074	6.074	6.178	6.178	8.970	8.970	10.252	10.252	10.971	10.971	11.690	11.690
27°C	5.062	5.062	5.766	5.766	6.001	6.001	8.584	8.584	9.992	9.992	10.697	10.697	11.401	11.401
Frost Region														

Remark:

AFR: Air flow rate (CFM)

EWB: Entering Wet Bulb Temp. (°C)

EDB: Entering Dry Bulb Temp. (°C)

TC: Total Cooling / Heating Capacity (kW)

SC: Sensible Cooling / Heating Capacity (kW)

PI: Power Input (kW)

Notes:

1. Ratings shown are net capacities.

2. ■ shows nominal capacities.

3. Direct interpolation is permissible. Do not extrapolate.

4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

Model: FLQN100EXV1 - RQ100DXV1

Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
877	16°C	21°C	10.47	7.21	3.06	10.10	7.02	3.31	9.72	6.83	3.58	9.33	6.63	3.88	8.57	6.17	4.21	7.91	5.81	4.65
		24°C	10.48	8.63	3.06	10.11	8.43	3.31	9.73	8.24	3.58	9.35	8.03	3.89	8.59	7.50	4.22	7.94	7.08	4.65
		27°C	10.56	9.78	3.06	10.21	9.56	3.31	9.85	9.34	3.59	9.48	9.10	3.89	8.75	8.47	4.23	8.14	7.95	4.66
		30°C	10.89	10.89	3.08	10.58	10.58	3.33	10.26	10.26	3.61	9.93	9.93	3.92	9.20	9.20	4.26	8.61	8.61	4.71
	19°C	24°C	11.55	6.73	3.11	11.14	6.56	3.36	10.73	6.38	3.64	10.31	6.20	3.95	9.47	5.78	4.29	8.76	5.44	4.73
		27°C	11.55	7.70	3.11	11.15	7.52	3.36	10.74	7.35	3.64	10.32	7.17	3.95	9.48	6.71	4.29	8.77	6.36	4.73
		30°C	11.57	9.50	3.11	11.17	9.30	3.37	10.78	9.09	3.65	10.37	8.87	3.96	9.55	8.30	4.29	8.86	7.85	4.73
		33°C	11.71	11.71	3.12	11.33	11.33	3.37	10.96	10.96	3.66	10.59	10.59	3.97	9.79	9.79	4.31	9.16	9.16	4.76
	22°C	27°C	12.70	6.59	3.16	12.26	6.43	3.43	11.82	6.27	3.71	11.35	6.09	4.03	10.44	5.68	4.37	9.66	5.35	4.82
		30°C	12.71	8.03	3.16	12.27	7.85	3.43	11.82	7.68	3.72	11.36	7.49	4.03	10.44	7.01	4.37	9.67	6.65	4.82
		33°C	12.71	9.37	3.16	12.27	9.19	3.43	11.83	9.01	3.72	11.36	8.83	4.03	10.46	8.29	4.37	9.69	7.87	4.82
		36°C	12.75	10.63	3.17	12.33	10.42	3.43	11.90	10.20	3.72	11.47	9.97	4.04	10.58	9.35	4.38	9.84	8.87	4.83
983	16°C	21°C	10.89	7.51	3.09	10.50	7.32	3.34	10.10	7.13	3.61	9.69	6.93	3.92	8.89	6.45	4.25	8.20	6.07	4.68
		24°C	10.92	9.12	3.09	10.53	8.91	3.34	10.14	8.69	3.62	9.73	8.48	3.92	8.94	7.91	4.25	8.26	7.46	4.69
		27°C	11.05	10.36	3.09	10.68	10.12	3.35	10.31	9.86	3.63	9.94	9.56	3.94	9.18	8.88	4.27	8.55	8.31	4.72
		30°C	11.52	11.52	3.12	11.18	11.18	3.38	10.84	10.84	3.66	10.49	10.49	3.97	9.72	9.72	4.32	9.08	9.08	4.77
	19°C	24°C	12.00	7.11	3.14	11.57	6.93	3.39	11.14	6.75	3.68	10.69	6.56	3.99	9.82	6.12	4.33	9.07	5.77	4.77
		27°C	12.02	8.19	3.14	11.59	8.01	3.40	11.16	7.83	3.68	10.71	7.64	3.99	9.84	7.14	4.33	9.10	6.76	4.77
		30°C	12.08	10.10	3.14	11.66	9.88	3.40	11.24	9.66	3.69	10.81	9.43	4.00	9.95	8.81	4.34	9.23	8.33	4.78
		33°C	12.28	12.28	3.15	11.90	11.90	3.41	11.52	11.52	3.70	11.14	11.14	4.02	10.32	10.32	4.37	9.65	9.65	4.82
	22°C	27°C	13.18	6.96	3.19	12.72	6.80	3.46	12.25	6.63	3.75	11.76	6.45	4.07	10.81	6.01	4.41	9.99	5.67	4.86
		30°C	13.20	8.54	3.19	12.73	8.36	3.46	12.26	8.18	3.75	11.77	7.99	4.07	10.82	7.48	4.41	10.01	7.10	4.86
		33°C	13.22	10.01	3.20	12.76	9.82	3.46	12.29	9.62	3.75	11.81	9.41	4.07	10.86	8.83	4.42	10.07	8.38	4.87
		36°C	13.30	11.31	3.20	12.87	11.10	3.47	12.42	10.87	3.76	11.97	10.62	4.08	11.05	9.93	4.43	10.30	9.37	4.89
1100	16°C	21°C	11.29	7.84	3.11	10.88	7.64	3.36	10.46	7.44	3.64	10.03	7.23	3.95	9.20	6.74	4.28	8.48	6.34	4.72
		24°C	11.35	9.53	3.11	10.94	9.30	3.37	10.53	9.37	3.65	10.10	8.84	3.96	9.28	8.25	4.29	8.57	7.77	4.73
		27°C	11.53	10.92	3.12	11.16	10.64	3.38	10.78	10.34	3.66	10.39	10.02	3.98	9.60	9.28	4.32	8.95	8.66	4.76
		30°C	12.11	12.11	3.15	11.76	11.76	3.41	11.40	11.40	3.70	11.02	11.02	4.02	10.20	10.20	4.37	9.53	9.53	4.82
	19°C	24°C	12.43	7.52	3.16	11.98	7.34	3.42	11.52	7.15	3.71	11.06	6.95	4.02	10.15	6.48	4.36	9.37	6.11	4.80
		27°C	12.47	8.70	3.16	12.02	8.50	3.43	11.57	8.30	3.71	11.10	8.10	4.03	10.19	7.58	4.37	9.42	7.17	4.81
		30°C	12.57	10.71	3.17	12.12	10.47	3.43	11.69	10.23	3.72	11.24	9.98	4.03	10.35	9.32	4.38	9.61	8.78	4.83
		33°C	12.84	12.84	3.19	12.47	12.47	3.45	12.08	12.08	3.75	11.68	11.68	4.07	10.82	10.82	4.42	10.12	10.12	4.88
	22°C	27°C	13.64	7.36	3.22	13.15	7.20	3.49	12.66	7.02	3.78	12.15	6.83	4.10	11.16	6.37	4.45	10.31	6.02	4.90
		30°C	13.67	9.07	3.22	13.18	8.90	3.49	12.68	8.70	3.78	12.18	8.51	4.10	11.19	7.97	4.45	10.35	7.55	4.90
		33°C	13.71	10.63	3.23	13.24	10.44	3.50	12.75	10.22	3.79	12.25	10.00	4.11	11.27	9.37	4.46	10.44	8.89	4.91
		36°C	13.84	12.00	3.23	13.40	11.78	3.51	12.94	11.53	3.80	12.47	11.24	4.13	11.53	10.48	4.48	10.75	9.87	4.94

Model: FLQN100EXV1 - RQ100DXV1

Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	7.087	7.087	8.021	8.021	8.333	8.333	11.758	11.758	13.627	13.627	14.561	14.561	15.495	15.495
17°C	6.901	6.901	8.365	8.365	8.172	8.172	11.744	11.744	13.572	13.572	14.524	14.524	15.477	15.477
19°C	6.715	6.715	8.709	8.709	8.011	8.011	11.730	11.730	13.516	13.516	14.488	14.488	15.459	15.459
21°C	6.530	6.530	8.614	8.614	7.850	7.850	11.649	11.649	13.461	13.461	14.451	14.451	15.441	15.441
23°C	6.344	6.344	8.082	8.082	7.689	7.689	11.500	11.500	13.405	13.405	14.414	14.414	15.423	15.423
25°C	6.158	6.158	7.550	7.550	7.528	7.528	11.351	11.351	13.350	13.350	14.378	14.378	15.405	15.405
27°C	5.972	5.972	7.018	7.018	7.367	7.367	11.203	11.203	13.295	13.295	14.341	14.341	15.387	15.387
Frost Region														

Remark:

AFR: Air flow rate (CFM)

EWB: Entering Wet Bulb Temp. (°C)

EDB: Entering Dry Bulb Temp. (°C)

TC: Total Cooling / Heating Capacity (kW)

SC: Sensible Cooling / Heating Capacity (kW)

PI: Power Input (kW)

Notes:

1. Ratings shown are net capacities.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

Model: FLQN100EXV1 - RQ100DXY1

Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
877	16°C	21°C	10.75	8.02	2.99	10.37	7.81	3.24	9.98	7.60	3.51	9.58	7.38	3.80	8.80	6.87	4.12	8.12	6.46	4.55
		24°C	10.76	9.60	2.99	10.38	9.38	3.24	10.00	9.16	3.51	9.60	8.93	3.80	8.82	8.34	4.13	8.16	7.87	4.55
		27°C	10.85	10.85	3.00	10.49	10.49	3.24	10.12	10.12	3.51	9.74	9.74	3.81	8.99	8.99	4.14	8.36	8.36	4.57
		30°C	11.18	11.18	3.01	10.86	10.86	3.26	10.53	10.53	3.54	10.19	10.19	3.84	9.45	9.45	4.17	8.84	8.84	4.61
	19°C	24°C	11.86	7.48	3.04	11.44	7.29	3.29	11.02	7.10	3.57	10.59	6.90	3.87	9.73	6.43	4.20	8.99	6.05	4.63
		27°C	11.87	8.56	3.04	11.45	8.37	3.29	11.03	8.18	3.57	10.59	7.98	3.87	9.74	7.46	4.20	9.00	7.07	4.63
		30°C	11.88	10.57	3.04	11.47	10.34	3.29	11.07	10.11	3.57	10.65	9.87	3.87	9.80	9.23	4.20	9.10	8.73	4.63
		33°C	12.02	12.02	3.05	11.63	11.63	3.30	11.26	11.26	3.58	10.87	10.87	3.89	10.06	10.06	4.22	9.40	9.40	4.66
	22°C	27°C	13.04	7.32	3.10	12.59	7.15	3.35	12.13	6.97	3.64	11.66	6.78	3.94	10.72	6.32	4.28	9.93	5.95	4.71
		30°C	13.05	8.93	3.10	12.60	8.74	3.35	12.14	8.54	3.64	11.66	8.33	3.94	10.73	7.80	4.28	9.93	7.40	4.71
		33°C	13.06	10.42	3.10	12.60	10.23	3.35	12.15	10.02	3.64	11.67	9.82	3.95	10.74	9.22	4.28	9.95	8.75	4.72
		36°C	13.10	11.82	3.10	12.67	11.58	3.36	12.23	11.34	3.64	11.78	11.09	3.95	10.86	10.40	4.29	10.10	9.87	4.73
983	16°C	21°C	11.18	8.36	3.02	10.78	8.14	3.27	10.37	7.93	3.54	9.95	7.70	3.84	9.13	7.17	4.16	8.42	6.75	4.59
		24°C	11.22	10.15	3.02	10.81	9.91	3.27	10.41	9.67	3.54	9.99	9.43	3.84	9.18	8.80	4.16	8.48	8.30	4.59
		27°C	11.35	11.35	3.03	10.97	10.97	3.28	10.59	10.59	3.55	10.21	10.21	3.85	9.43	9.43	4.18	8.78	8.78	4.62
		30°C	11.83	11.83	3.05	11.48	11.48	3.30	11.13	11.13	3.58	10.77	10.77	3.89	9.98	9.98	4.23	9.33	9.33	4.67
	19°C	24°C	12.32	7.91	3.07	11.88	7.71	3.32	11.44	7.51	3.60	10.98	7.30	3.90	10.08	6.80	4.23	9.31	6.41	4.67
		27°C	12.34	9.11	3.07	11.90	8.91	3.32	11.46	8.71	3.60	11.00	8.50	3.91	10.10	7.95	4.24	9.34	7.52	4.67
		30°C	12.40	11.24	3.07	11.97	10.99	3.33	11.54	10.75	3.61	11.10	10.48	3.91	10.22	9.80	4.25	9.48	9.26	4.68
		33°C	12.61	12.61	3.08	12.22	12.22	3.34	11.83	11.83	3.63	11.44	11.44	3.94	10.60	10.60	4.28	9.91	9.91	4.72
	22°C	27°C	13.54	7.74	3.13	13.06	7.56	3.39	12.58	7.37	3.67	12.08	7.17	3.98	11.10	6.69	4.32	10.26	6.31	4.76
		30°C	13.55	9.50	3.13	13.08	9.30	3.39	12.59	9.10	3.67	12.09	8.88	3.98	11.11	8.32	4.32	10.28	7.90	4.76
		33°C	13.58	11.13	3.13	13.11	10.92	3.39	12.63	10.70	3.68	12.13	10.47	3.99	11.16	9.82	4.32	10.34	9.32	4.76
		36°C	13.66	12.58	3.13	13.22	12.35	3.40	12.76	12.09	3.68	12.30	11.81	4.00	11.34	11.05	4.34	10.58	10.42	4.79
1100	16°C	21°C	11.60	8.72	3.04	11.17	8.50	3.29	10.74	8.28	3.57	10.30	8.04	3.87	9.45	7.49	4.19	8.71	7.05	4.62
		24°C	11.66	10.60	3.05	11.23	10.35	3.30	10.81	10.09	3.57	10.38	9.83	3.87	9.53	9.17	4.20	8.80	8.65	4.63
		27°C	11.85	11.85	3.06	11.46	11.46	3.31	11.07	11.07	3.59	10.67	10.67	3.89	9.86	9.86	4.23	9.19	9.19	4.66
		30°C	12.44	12.44	3.08	12.08	12.08	3.34	11.70	11.70	3.62	11.32	11.32	3.93	10.48	10.48	4.27	9.79	9.79	4.72
	19°C	24°C	12.77	8.37	3.10	12.30	8.16	3.35	11.84	7.95	3.63	11.35	7.73	3.94	10.42	7.21	4.27	9.62	6.80	4.70
		27°C	12.80	9.68	3.10	12.34	9.46	3.35	11.88	9.24	3.63	11.40	9.01	3.94	10.47	8.43	4.27	9.67	7.97	4.71
		30°C	12.91	11.91	3.10	12.45	11.65	3.36	12.01	11.38	3.64	11.55	11.10	3.95	10.63	10.37	4.29	9.87	9.77	4.73
		33°C	13.19	13.19	3.12	12.80	12.80	3.38	12.41	12.41	3.67	12.00	12.00	3.98	11.12	11.12	4.33	10.40	10.40	4.78
	22°C	27°C	14.01	8.18	3.15	13.51	8.00	3.42	13.00	7.80	3.70	12.48	7.60	4.01	11.46	7.09	4.35	10.59	6.70	4.79
		30°C	14.04	10.09	3.16	13.54	9.90	3.42	13.03	9.68	3.70	12.50	9.46	4.02	11.49	8.86	4.36	10.63	8.40	4.80
		33°C	14.09	11.82	3.16	13.60	11.62	3.42	13.10	11.37	3.71	12.58	11.12	4.02	11.58	10.42	4.36	10.72	9.89	4.81
		36°C	14.21	13.35	3.17	13.77	13.11	3.43	13.29	12.82	3.72	12.81	12.50	4.04	11.84	11.66	4.39	11.04	10.98	4.84

Model: FLQN100EXV1 - RQ100DXY1

Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	7.441	7.441	8.422	8.422	8.749	8.749	12.346	12.346	14.308	14.308	15.289	15.289	16.270	16.270
17°C	7.246	7.246	8.609	8.609	8.565	8.565	12.332	12.332	14.169	14.169	15.158	15.158	16.147	16.147
19°C	7.051	7.051	8.797	8.797	8.381	8.381	12.317	12.317	14.031	14.031	15.028	15.028	16.025	16.025
21°C	6.856	6.856	8.663	8.663	8.196	8.196	12.182	12.182	13.892	13.892	14.897	14.897	15.902	15.902
23°C	6.661	6.661	8.209	8.209	8.012	8.012	11.927	11.927	13.753	13.753	14.766	14.766	15.779	15.779
25°C	6.466	6.466	7.754	7.754	7.828	7.828	11.672	11.672	13.614	13.614	14.635	14.635	15.656	15.656
27°C	6.271	6.271	7.300	7.300	7.643	7.643	11.417	11.417	13.475	13.475	14.504	14.504	15.533	15.533
Frost Region														

Remark:

AFR: Air flow rate (CFM)

EWB: Entering Wet Bulb Temp. (°C)

EDB: Entering Dry Bulb Temp. (°C)

TC: Total Cooling / Heating Capacity (kW)

SC: Sensible Cooling / Heating Capacity (kW)

PI: Power Input (kW)

Notes:

1. Ratings shown are net capacities.

2. ■ shows nominal capacities.

3. Direct interpolation is permissible. Do not extrapolate.

4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

Model: FHQN125CXV1 - RQ125DXY1

Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
959	16°C	21°C	12.44	9.39	3.43	12.00	9.14	3.71	11.55	8.90	4.02	11.09	8.64	4.36	10.18	8.04	4.73	9.40	7.56	5.21
		24°C	12.45	11.24	3.43	12.01	10.98	3.71	11.57	10.73	4.02	11.11	10.46	4.36	10.20	9.77	4.73	9.44	9.22	5.22
		27°C	12.55	12.55	3.44	12.14	12.14	3.72	11.71	11.71	4.03	11.27	11.27	4.37	10.40	10.40	4.74	9.67	9.67	5.24
		30°C	12.94	12.94	3.45	12.57	12.57	3.74	12.19	12.19	4.06	11.79	11.79	4.40	10.93	10.93	4.79	10.23	10.23	5.28
	19°C	24°C	13.72	8.76	3.49	13.24	8.54	3.77	12.75	8.32	4.09	12.25	8.08	4.44	11.26	7.53	4.81	10.41	7.09	5.30
		27°C	13.73	10.03	3.49	13.24	9.80	3.77	12.76	9.58	4.09	12.26	9.35	4.44	11.27	8.74	4.81	10.42	8.28	5.30
		30°C	13.75	12.37	3.49	13.27	12.11	3.78	12.81	11.84	4.09	12.32	11.56	4.44	11.34	10.81	4.82	10.52	10.23	5.31
		33°C	13.91	13.91	3.50	13.46	13.46	3.79	13.02	13.02	4.11	12.58	12.58	4.46	11.64	11.64	4.84	10.88	10.88	5.35
	22°C	27°C	15.09	8.58	3.55	14.57	8.37	3.85	14.04	8.16	4.17	13.49	7.94	4.52	12.41	7.40	4.91	11.48	6.97	5.40
		30°C	15.10	10.45	3.55	14.58	10.23	3.85	14.04	10.00	4.17	13.49	9.76	4.52	12.41	9.14	4.91	11.49	8.67	5.41
		33°C	15.11	12.21	3.55	14.58	11.98	3.85	14.05	11.74	4.17	13.50	11.50	4.52	12.43	10.79	4.91	11.52	10.25	5.41
		36°C	15.16	13.85	3.55	14.65	13.57	3.85	14.15	13.29	4.18	13.63	12.99	4.53	12.57	12.18	4.92	11.69	11.56	5.42
1082	16°C	21°C	12.94	9.79	3.46	12.47	9.54	3.75	12.00	9.28	4.06	11.51	9.02	4.40	10.56	8.40	4.77	9.74	7.91	5.26
		24°C	12.98	11.88	3.46	12.51	11.60	3.75	12.04	11.33	4.06	11.56	11.04	4.40	10.62	10.30	4.77	9.82	9.72	5.26
		27°C	13.14	13.14	3.47	12.69	12.69	3.76	12.26	12.26	4.07	11.82	11.82	4.42	10.91	10.91	4.80	10.16	10.16	5.29
		30°C	13.68	13.68	3.50	13.29	13.29	3.79	12.88	12.88	4.11	12.46	12.46	4.46	11.55	11.55	4.85	10.79	10.79	5.35
	19°C	24°C	14.26	9.26	3.52	13.75	9.03	3.81	13.23	8.79	4.13	12.70	8.55	4.48	11.66	7.97	4.85	10.77	7.51	5.35
		27°C	14.28	10.67	3.52	13.77	10.43	3.81	13.26	10.19	4.13	12.72	9.95	4.48	11.69	9.30	4.86	10.81	8.81	5.35
		30°C	14.35	13.16	3.52	13.85	12.87	3.82	13.35	12.59	4.14	12.84	12.28	4.49	11.83	11.48	4.87	10.97	10.85	5.37
		33°C	14.59	14.59	3.54	14.14	14.14	3.83	13.69	13.69	4.16	13.24	13.24	4.51	12.26	12.26	4.90	11.46	11.46	5.41
	22°C	27°C	15.66	9.07	3.58	15.11	8.85	3.88	14.55	8.63	4.21	13.97	8.40	4.56	12.84	7.83	4.95	11.88	7.39	5.45
		30°C	15.68	11.13	3.59	15.13	10.90	3.88	14.57	10.65	4.21	13.99	10.40	4.57	12.86	9.74	4.95	11.89	9.25	5.45
		33°C	15.71	13.04	3.59	15.17	12.79	3.89	14.61	12.53	4.21	14.03	12.26	4.57	12.91	11.50	4.96	11.97	10.92	5.46
		36°C	15.81	14.74	3.59	15.30	14.46	3.90	14.76	14.16	4.22	14.23	13.83	4.58	13.13	12.94	4.97	12.24	12.21	5.49
1215	16°C	21°C	13.42	10.21	3.49	12.93	9.95	3.78	12.43	9.69	4.09	11.92	9.42	4.43	10.93	8.77	4.81	10.07	8.26	5.30
		24°C	13.49	12.41	3.49	13.00	12.12	3.78	12.51	11.82	4.09	12.00	11.51	4.44	11.03	10.74	4.81	10.19	10.13	5.31
		27°C	13.71	13.71	3.51	13.26	13.26	3.79	12.81	12.81	4.11	12.35	12.35	4.46	11.41	11.41	4.84	10.64	10.64	5.35
		30°C	14.39	14.39	3.54	13.97	13.97	3.83	13.54	13.54	4.15	13.10	13.10	4.51	12.13	12.13	4.90	11.32	11.32	5.41
	19°C	24°C	14.77	9.80	3.55	14.24	9.56	3.84	13.69	9.31	4.16	13.14	9.06	4.51	12.06	8.44	4.89	11.13	7.96	5.39
		27°C	14.81	11.34	3.55	14.28	11.08	3.84	13.74	10.82	4.17	13.19	10.55	4.52	12.11	9.87	4.90	11.19	9.34	5.40
		30°C	14.94	13.95	3.56	14.41	13.65	3.85	13.89	13.33	4.17	13.36	13.00	4.53	12.30	12.14	4.91	11.42	11.42	5.42
		33°C	15.26	15.26	3.57	14.81	14.81	3.87	14.36	14.36	4.20	13.88	13.88	4.57	12.86	12.86	4.96	12.03	12.03	5.48
	22°C	27°C	16.21	9.58	3.62	15.63	9.37	3.92	15.04	9.14	4.24	14.44	8.90	4.60	13.26	8.30	4.99	12.26	7.84	5.50
		30°C	16.24	11.82	3.62	15.66	11.59	3.92	15.07	11.34	4.25	14.47	11.08	4.61	13.29	10.38	4.99	12.29	9.84	5.50
		33°C	16.30	13.85	3.62	15.73	13.61	3.92	15.15	13.32	4.25	14.56	13.03	4.61	13.39	12.21	5.00	12.41	11.59	5.51
		36°C	16.44	15.64	3.63	15.93	15.35	3.94	15.38	15.01	4.27	14.82	14.64	4.63	13.70	13.66	5.03	12.78	12.78	5.55

Model: FHQN125CXV1 - RQ125DXY1

Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
15°C	7.973	7.937	9.024	9.024	9.374	9.374	13.228	13.228	15.330	15.330	16.381	16.381	17.432	17.432
17°C	7.764	7.764	9.283	9.283	9.176	9.176	13.212	13.212	15.178	15.178	16.237	16.237	17.297	17.297
19°C	7.555	7.555	9.542	9.542	8.978	8.978	13.197	13.197	15.026	15.026	16.094	16.094	17.161	17.161
21°C	7.346	7.346	9.407	9.407	8.780	8.780	13.050	13.050	14.874	14.874	15.950	15.950	17.025	17.025
23°C	7.137	7.137	8.878	8.878	8.582	8.582	12.773	12.773	14.722	14.722	15.806	15.806	16.889	16.889
25°C	6.928	6.928	8.348	8.348	8.384	8.384	12.496	12.496	14.570	14.570	15.662	15.662	16.754	16.754
27°C	6.719	6.719	7.819	7.819	8.185	8.185	12.218	12.218	14.418	14.418	15.518	15.518	16.618	16.618
Frost Region														

Remark:

AFR: Air flow rate (CFM)

EWB: Entering Wet Bulb Temp. (°C)

EDB: Entering Dry Bulb Temp. (°C)

TC: Total Cooling / Heating Capacity (kW)

SC: Sensible Cooling / Heating Capacity (kW)

PI: Power Input (kW)

Notes:

1. Ratings shown are net capacities.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

Model: FHQN140CXV1 - RQ140DXY1

Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
1000	16°C	21°C	15.19	10.03	4.87	14.66	9.77	5.27	14.11	9.50	5.71	13.54	9.23	6.19	12.44	8.59	6.71	11.48	8.08	7.40
		24°C	15.21	12.01	4.87	14.67	11.73	5.27	14.13	11.46	5.71	13.57	11.18	6.19	12.46	10.44	6.72	11.53	9.85	7.41
		27°C	15.33	13.62	4.88	14.82	13.31	5.28	14.30	12.99	5.72	13.76	12.66	6.20	12.70	11.78	6.74	11.82	11.07	7.43
		30°C	15.81	15.81	4.90	15.35	15.35	5.31	14.89	14.89	5.76	14.41	14.41	6.25	13.35	13.35	6.79	12.49	12.49	7.50
	19°C	24°C	16.76	9.36	4.95	16.17	9.13	5.36	15.58	8.88	5.81	14.96	8.63	6.30	13.75	8.04	6.83	12.71	7.57	7.53
		27°C	16.77	10.71	4.95	16.18	10.47	5.36	15.59	10.23	5.81	14.97	9.98	6.30	13.76	9.34	6.83	12.73	8.85	7.53
		30°C	16.80	13.22	4.95	16.22	12.94	5.36	15.64	12.65	5.81	15.05	12.35	6.30	13.86	11.55	6.84	12.85	10.93	7.54
		33°C	16.99	16.99	4.96	16.44	16.44	5.38	15.91	15.91	5.83	15.37	15.37	6.33	14.22	14.22	6.87	13.29	13.29	7.59
	22°C	27°C	18.44	9.17	5.04	17.80	8.94	5.46	17.15	8.72	5.92	16.48	8.48	6.42	15.15	7.90	6.96	14.03	7.45	7.67
		30°C	18.44	11.17	5.04	17.81	10.93	5.46	17.15	10.68	5.92	16.48	10.43	6.42	15.16	9.76	6.97	14.03	9.26	7.67
		33°C	18.45	13.04	5.04	17.81	12.80	5.46	17.17	12.54	5.92	16.49	12.28	6.42	15.18	11.53	6.97	14.07	10.95	7.68
		36°C	18.51	14.79	5.04	17.90	14.50	5.47	17.28	14.19	5.93	16.65	13.88	6.43	15.36	13.01	6.98	14.28	12.35	7.70
1320	16°C	21°C	15.81	10.47	4.92	15.24	10.20	5.32	14.66	9.93	5.76	14.07	9.65	6.24	12.91	8.98	6.77	11.91	8.45	7.46
		24°C	15.86	12.70	4.92	15.29	12.41	5.32	14.72	12.11	5.76	14.12	11.81	6.25	12.98	11.01	6.78	11.99	10.39	7.47
		27°C	16.05	14.43	4.93	15.51	14.09	5.33	14.98	13.73	5.78	14.44	13.32	6.27	13.33	12.37	6.81	12.42	11.57	7.52
		30°C	16.72	16.72	4.97	16.24	16.24	5.38	15.74	15.74	5.83	15.23	15.23	6.33	14.11	14.11	6.88	13.19	13.19	7.60
	19°C	24°C	17.42	9.90	5.00	16.80	9.65	5.41	16.17	9.40	5.86	15.52	9.14	6.35	14.25	8.52	6.89	13.17	8.03	7.59
		27°C	17.45	11.40	5.00	16.83	11.15	5.41	16.20	10.90	5.86	15.55	10.64	6.36	14.29	9.95	6.90	13.21	9.42	7.60
		30°C	17.53	14.07	5.00	16.92	13.76	5.42	16.32	13.46	5.87	15.69	13.13	6.37	14.45	12.27	6.91	13.41	11.60	7.62
		33°C	17.83	17.83	5.02	17.28	17.28	5.44	16.73	16.73	5.90	16.18	16.18	6.41	14.98	14.98	6.96	14.01	14.01	7.69
	22°C	27°C	19.14	9.69	5.09	18.47	9.47	5.51	17.78	9.23	5.98	17.07	8.98	6.48	15.69	8.37	7.03	14.51	7.90	7.74
		30°C	19.16	11.90	5.09	18.49	11.65	5.52	17.80	11.39	5.98	17.09	11.12	6.48	15.71	10.42	7.03	14.53	9.89	7.74
		33°C	19.20	13.94	5.09	18.53	13.67	5.52	17.85	13.39	5.98	17.15	13.11	6.49	15.78	12.30	7.04	14.62	11.68	7.76
		36°C	19.32	15.76	5.10	18.69	15.46	5.53	18.04	15.14	6.00	17.38	14.79	6.51	16.04	13.84	7.06	14.95	13.05	7.79
1550	16°C	21°C	16.40	10.92	4.96	15.80	10.64	5.36	15.19	10.36	5.81	14.56	10.07	6.29	13.36	9.38	6.83	12.31	8.83	7.52
		24°C	16.49	13.27	4.96	15.89	12.96	5.37	15.29	12.64	5.81	14.67	12.31	6.30	13.47	11.49	6.84	12.45	10.83	7.53
		27°C	16.75	15.21	4.98	16.20	14.82	5.39	15.66	14.40	5.84	15.09	13.96	6.34	13.95	12.93	6.88	13.00	12.07	7.59
		30°C	17.59	17.59	5.02	17.07	17.07	5.44	16.55	16.55	5.90	16.00	16.00	6.41	14.82	14.82	6.96	13.84	13.84	7.68
	19°C	24°C	18.05	10.48	5.04	17.40	10.22	5.45	16.74	9.96	5.91	16.05	9.69	6.41	14.73	9.03	6.95	13.60	8.52	7.65
		27°C	18.10	12.12	5.04	17.45	11.84	5.46	16.80	11.57	5.91	16.12	11.28	6.41	14.80	10.55	6.96	13.68	9.98	7.66
		30°C	18.25	14.92	5.05	17.61	14.59	5.47	16.98	14.26	5.93	16.33	13.90	6.43	15.03	12.98	6.98	13.95	12.24	7.69
		33°C	18.65	18.65	5.08	18.10	18.10	5.50	17.54	17.54	5.97	16.97	16.97	6.48	15.72	15.72	7.04	14.70	14.70	7.78
	22°C	27°C	19.81	10.25	5.13	19.10	10.02	5.56	18.38	9.77	6.03	17.64	9.52	6.54	16.21	8.88	7.09	14.98	8.38	7.80
		30°C	19.85	12.63	5.14	19.14	12.40	5.56	18.42	12.13	6.03	17.68	11.85	6.54	16.24	11.10	7.09	15.02	10.52	7.81
		33°C	19.92	14.81	5.14	19.23	14.55	5.57	18.52	14.24	6.04	17.79	13.93	6.55	16.37	13.05	7.11	15.16	12.39	7.83
		36°C	20.09	16.72	5.15	19.46	16.41	5.59	18.79	16.05	6.06	18.11	15.66	6.58	16.74	14.60	7.14	15.61	13.75	7.88

Model: FHQN140CXV1 - RQ140DXY1

Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)	TC (kW)	SC (kW)
15°C	9.745	9.745	11.029	11.029	11.458	11.458	16.168	16.168	18.737	18.737	20.022	20.022	21.306	21.306
17°C	9.489	9.489	10.803	10.803	11.168	11.168	16.149	16.149	18.304	18.304	19.564	19.564	20.823	20.823
19°C	9.234	9.234	10.576	10.576	10.879	10.879	16.129	16.129	17.871	17.871	19.105	19.105	20.339	20.339
21°C	8.978	8.978	10.303	10.303	10.590	10.590	15.799	15.799	17.439	17.439	18.647	18.647	19.856	19.856
23°C	8.723	8.723	9.984	9.984	10.301	10.301	15.158	15.158	17.006	17.006	18.189	18.189	19.373	19.373
25°C	8.467	8.467	9.664	9.664	10.011	10.011	14.516	14.516	16.573	16.573	17.731	17.731	18.889	18.889
27°C	8.212	8.212	9.345	9.345	9.722	9.722	13.875	13.875	16.140	16.140	17.273	17.273	18.406	18.406
Frost Region														

Remark:

AFR: Air flow rate (CFM)

EWB: Entering Wet Bulb Temp. (°C)

EDB: Entering Dry Bulb Temp. (°C)

TC: Total Cooling / Heating Capacity (kW)

SC: Sensible Cooling / Heating Capacity (kW)

PI: Power Input (kW)

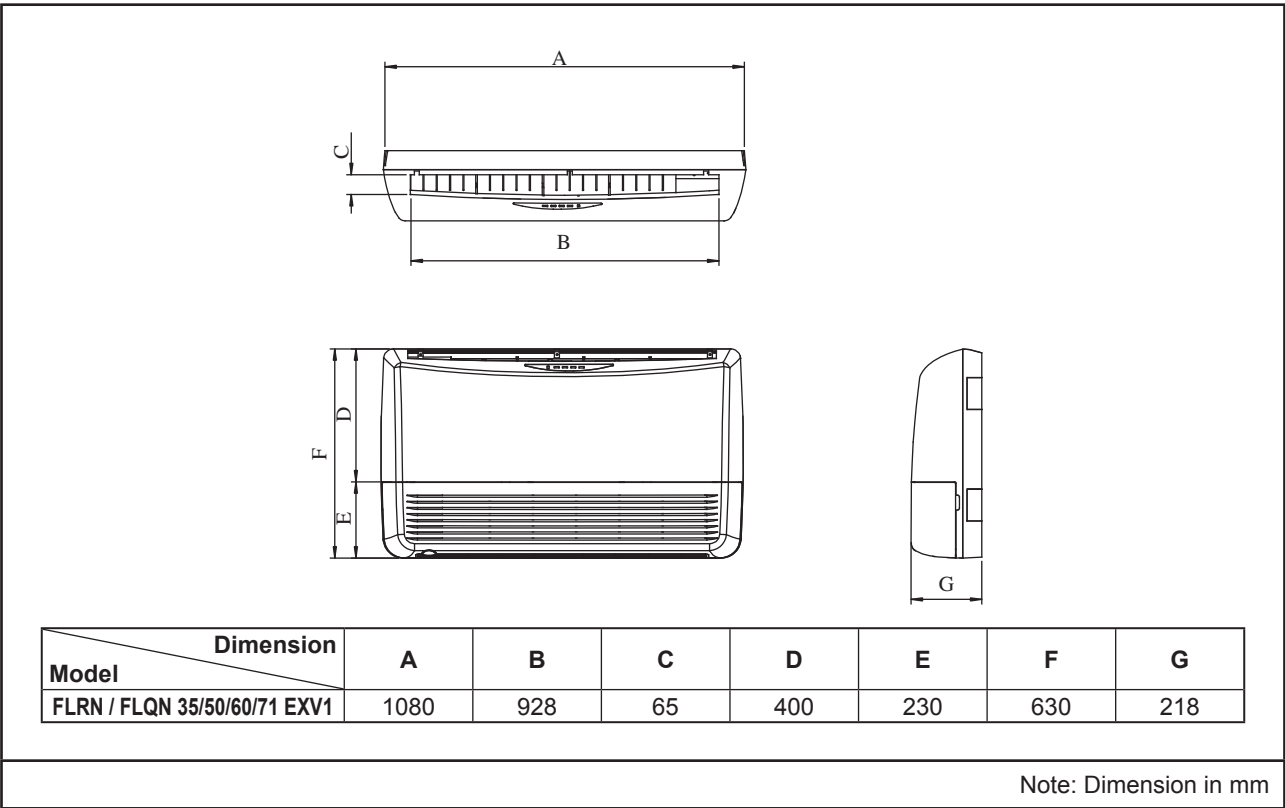
Notes:

1. Ratings shown are net capacities.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

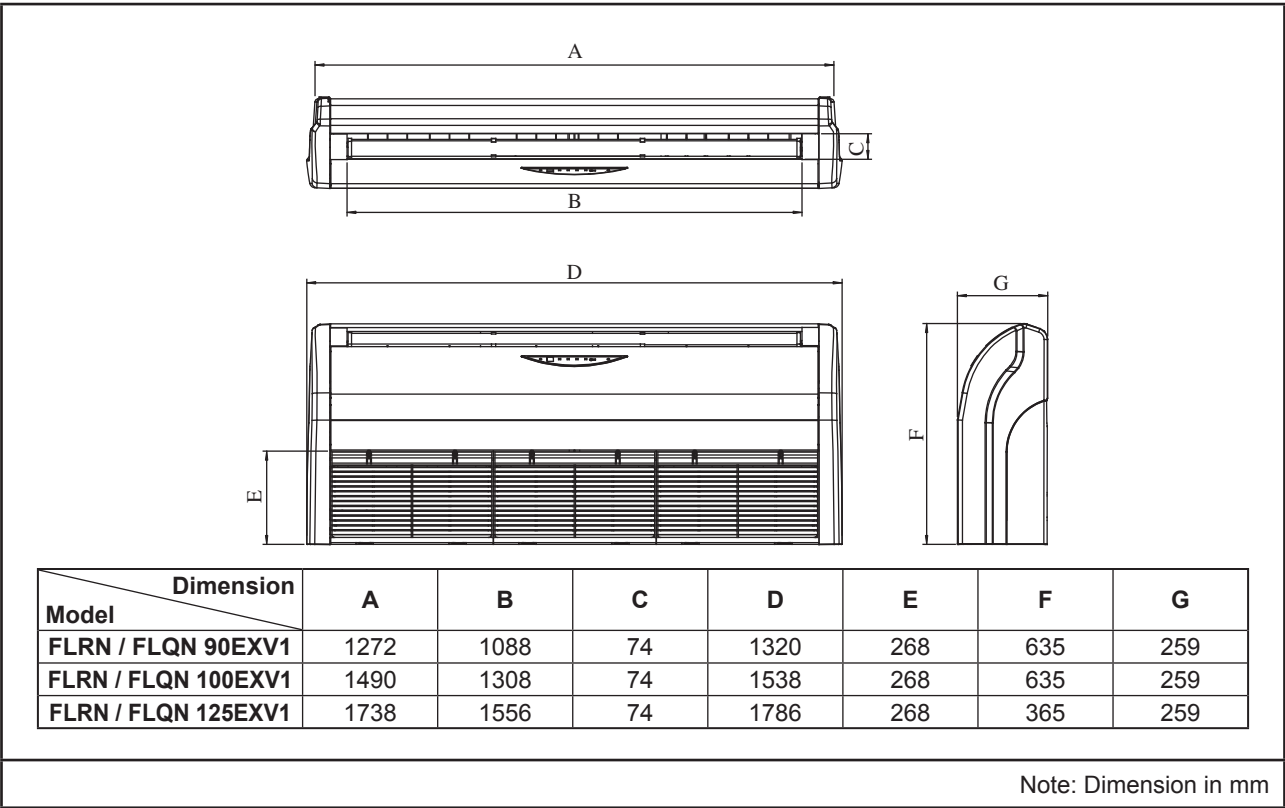
Outlines & Dimensions

Indoor Unit

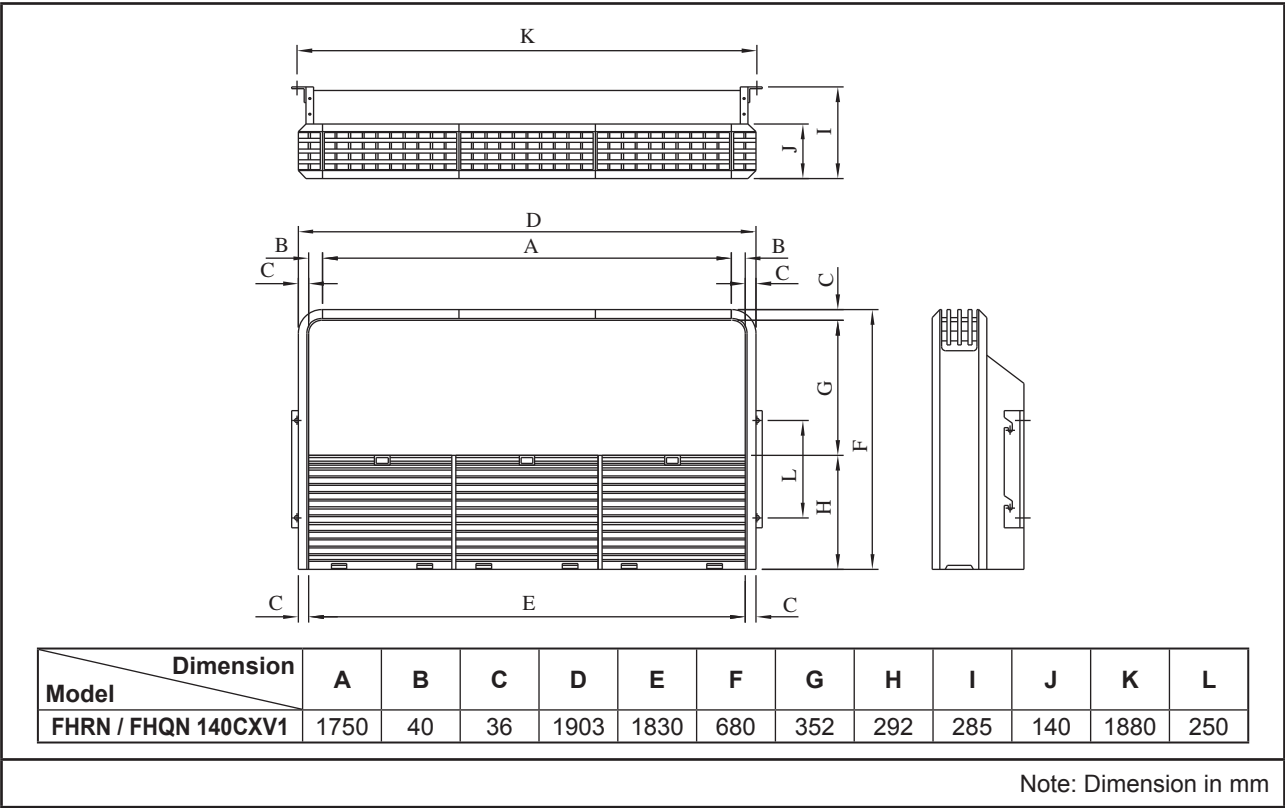
Model: FLRN / FLQN 35/50/60/71 EXV1



Model: FLRN / FLQN 90/100/125 EXV1

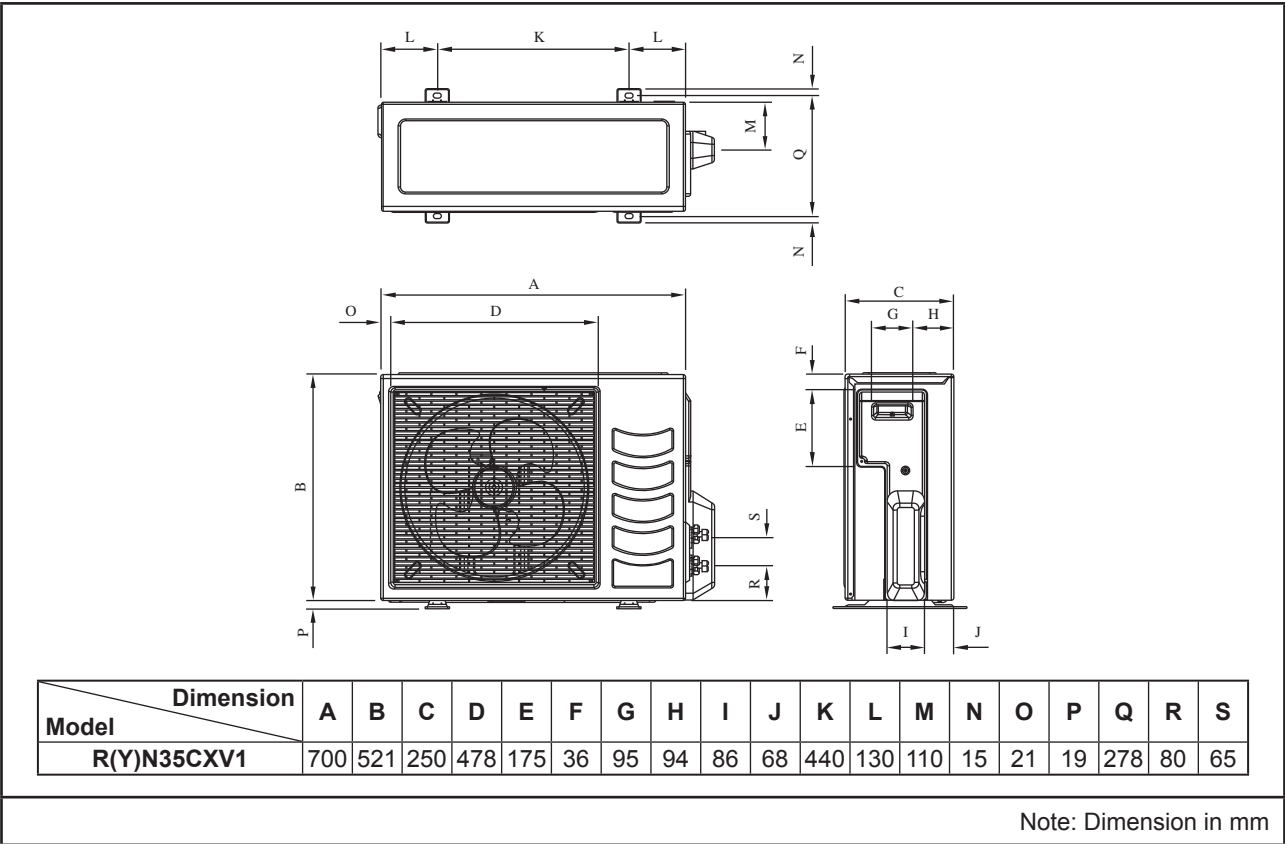


Model: FHRN / FHQN 140CXV1

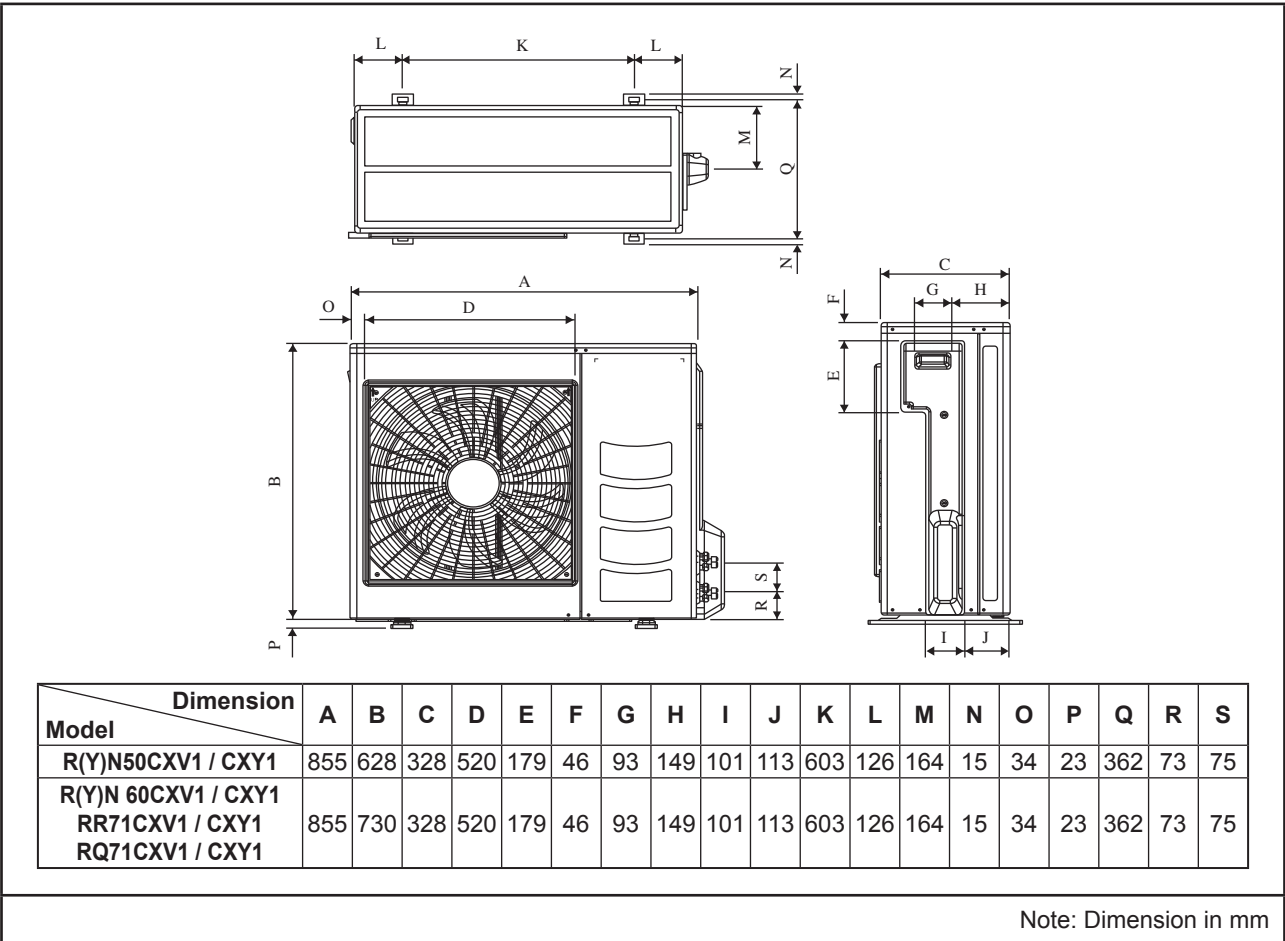


Outdoor Unit

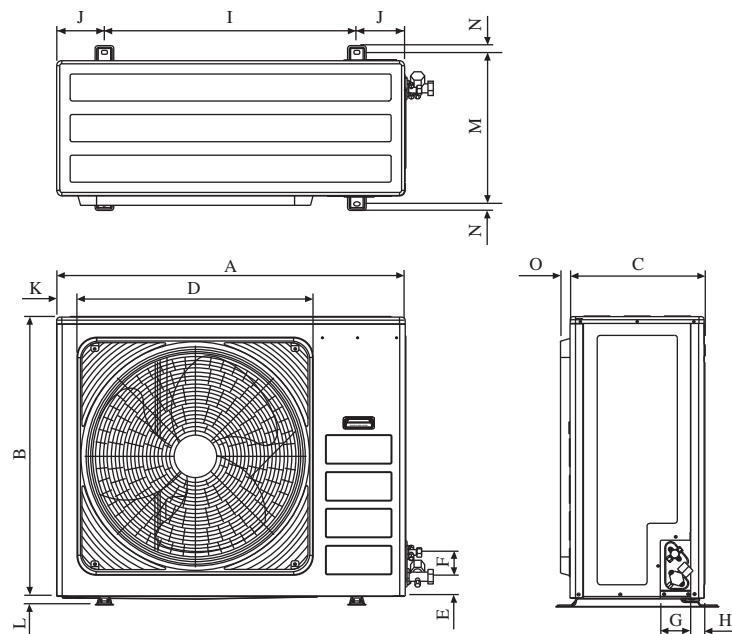
Model: R(Y)N35CXV1



Model: R(Y)N50CXV1 / CXY1, R(Y)N60CXV1 / CXY1, RR71CXV1 / CXY1, RQ71CXV1 / CXY1



Model: RR90DXV1 / DXY1, RQ90DXV1 / DXY1, RR100DXV1 / DXY1, RQ100DXV1 / DXY1, RR125DXY1, RQ125DXY1, RR140DXY1 , RQ140DXY1

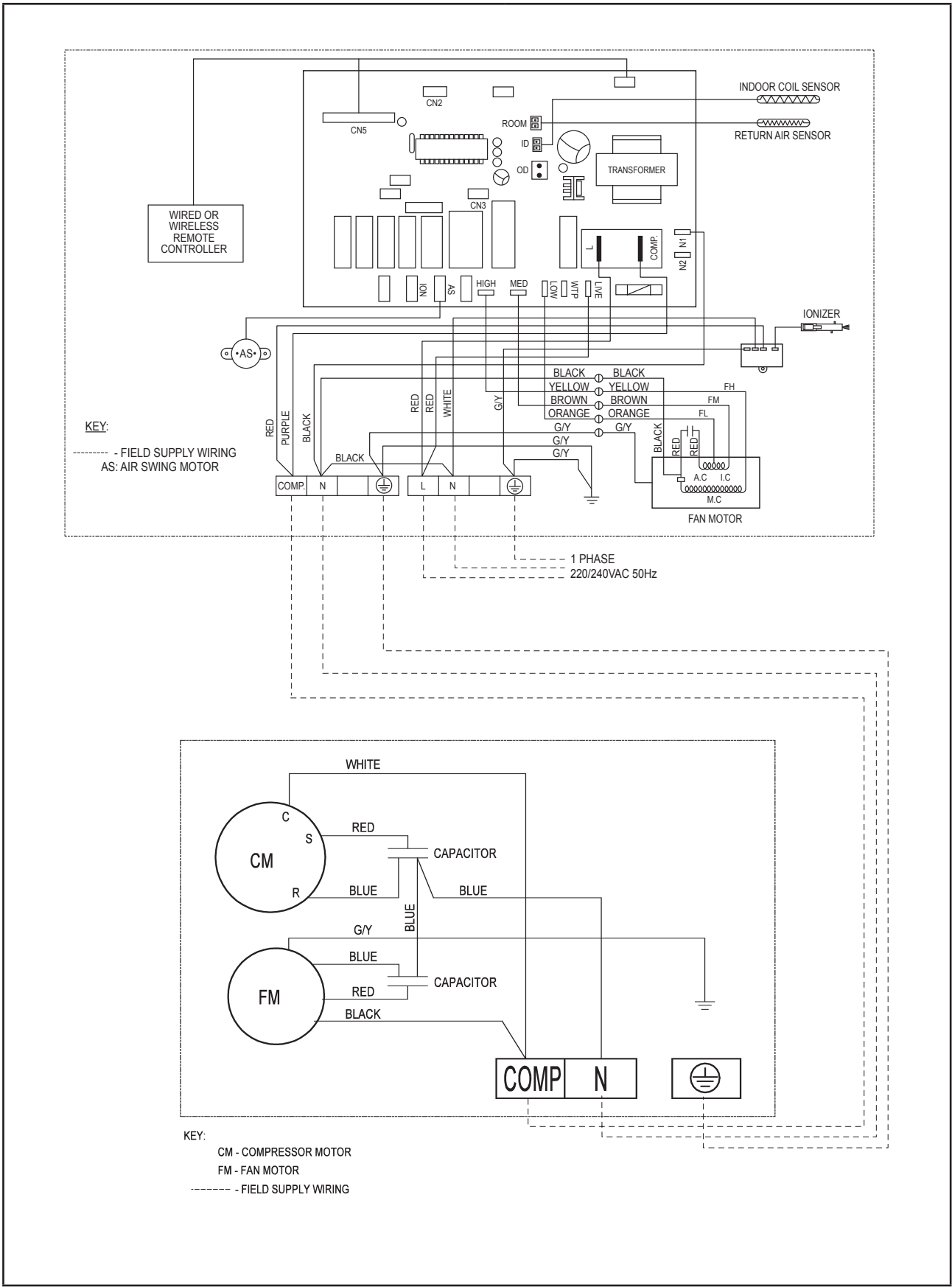


Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Model															
RR90DXV1 / DXY1, RQ90DXV1 / DXY1, RR100DXV1 / DXY1, RQ100DXV1 / DXY1, RR125DXY1, RQ125DXY1, RR140DXY1 , RQ140DXY1	1030	826	400	410	57	72	90	40	746	142	60	26	448	22	28

Note: Dimension in mm

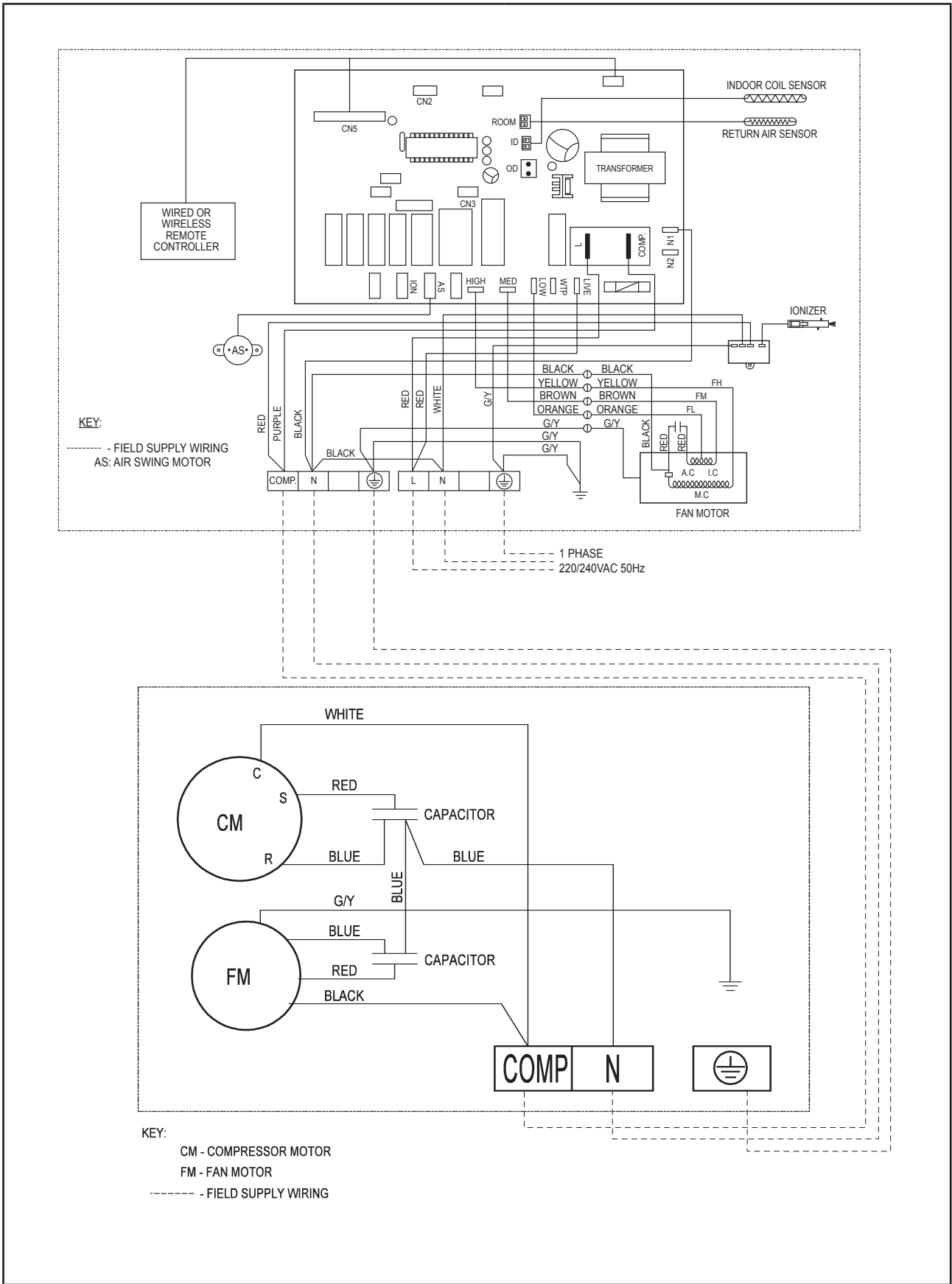
Indoor Unit
Model: FLRN50/60EXV1

Outdoor Unit
Model: RN50/60CXV1



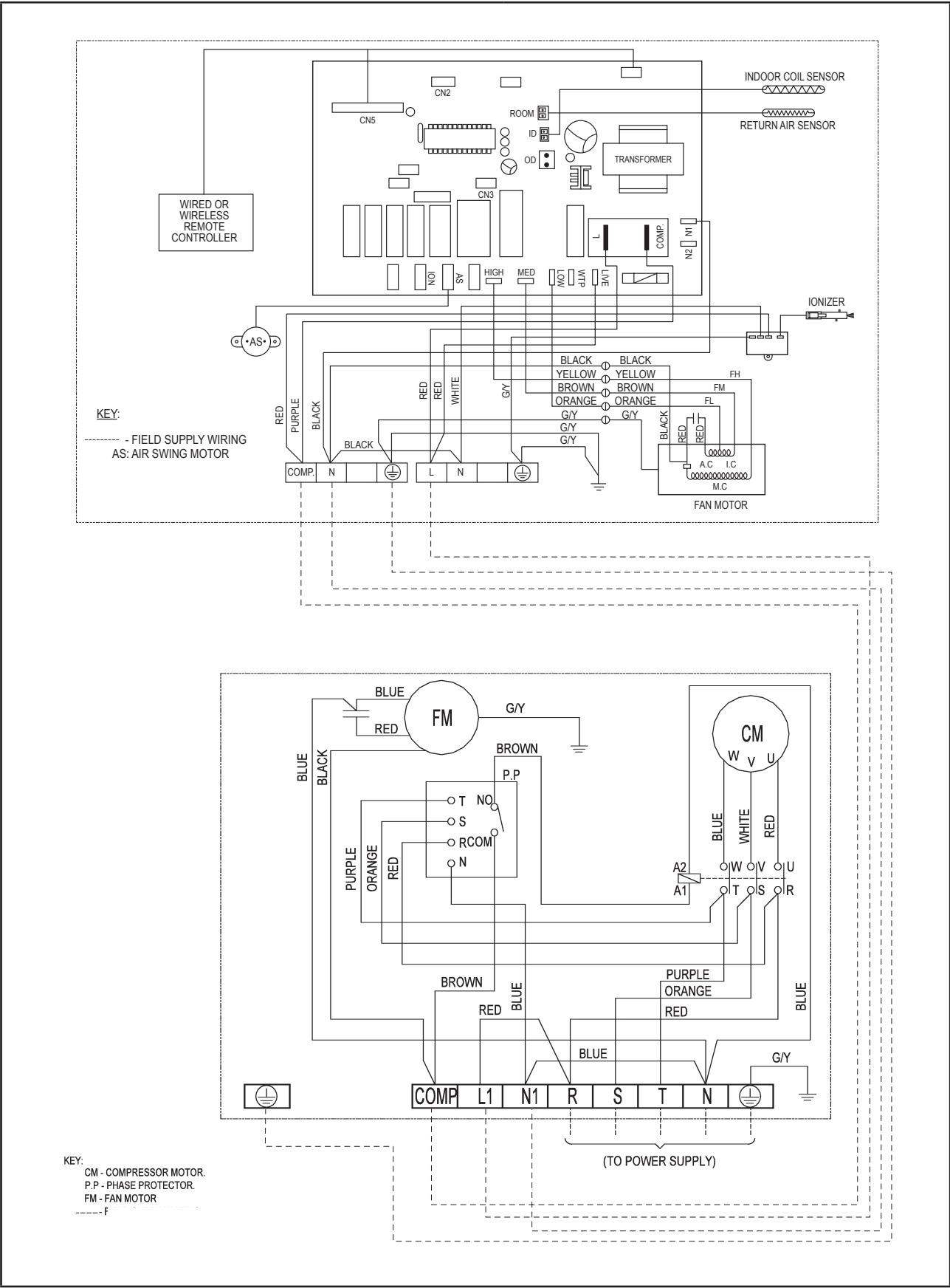
Indoor Unit
Model: FLRN71EXV1

Outdoor Unit
Model: RR71CXV1



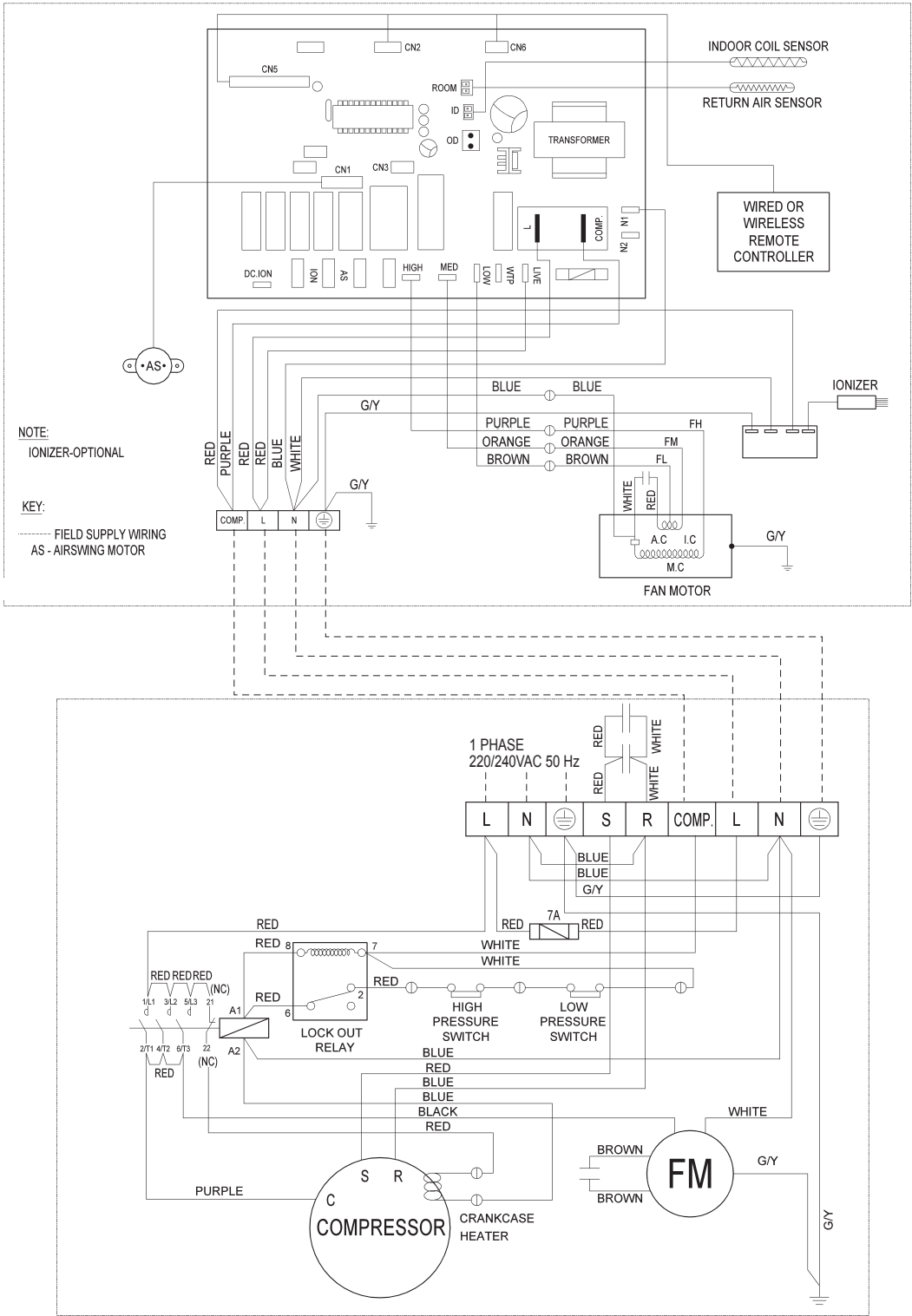
Indoor Unit
Model: FLRN71EXV1

Outdoor Unit
Model: RR71CXY1



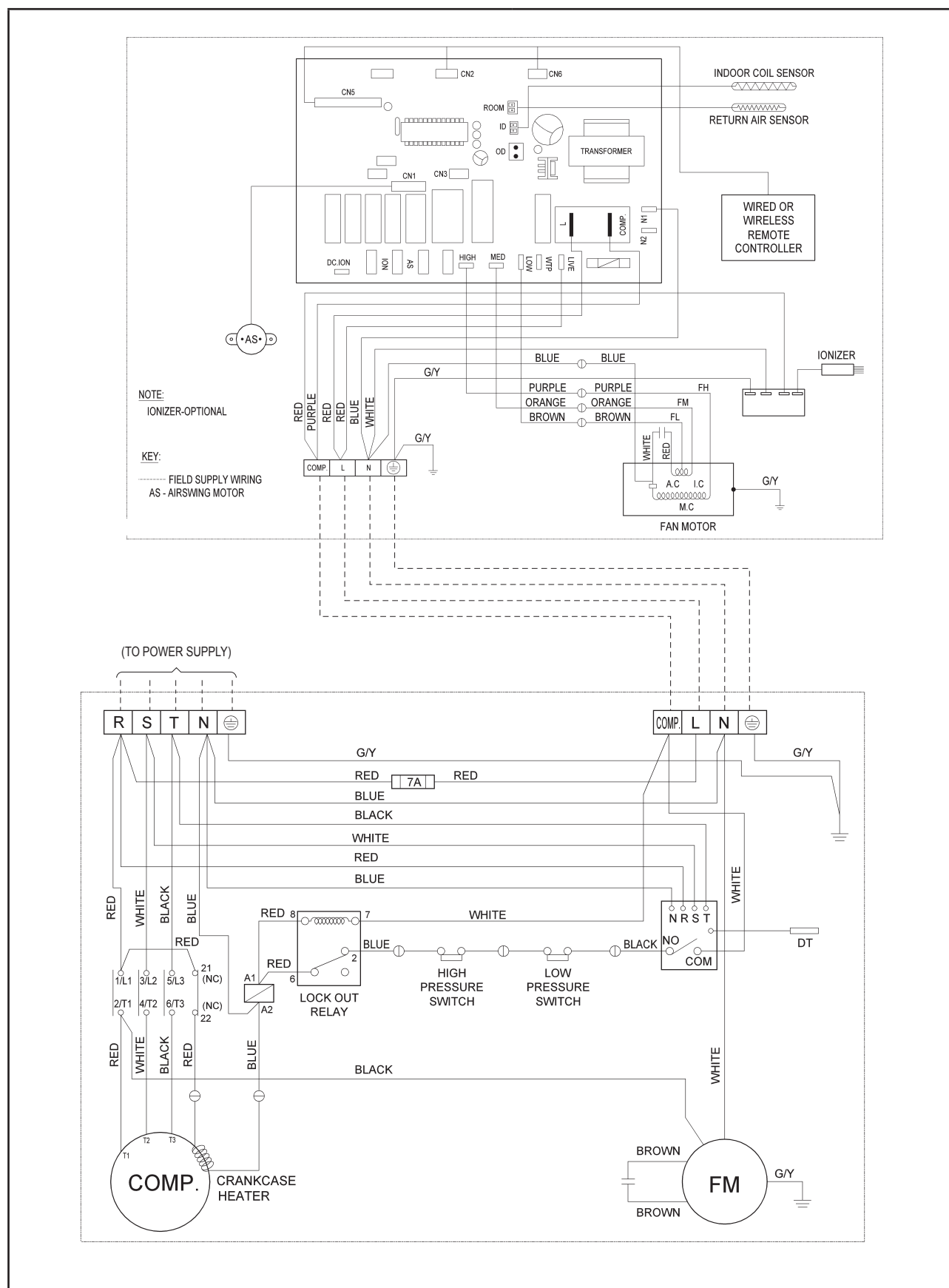
Indoor Unit
Model: FLRN90/100EXV1

Outdoor Unit
Model: RR90/100DXV1



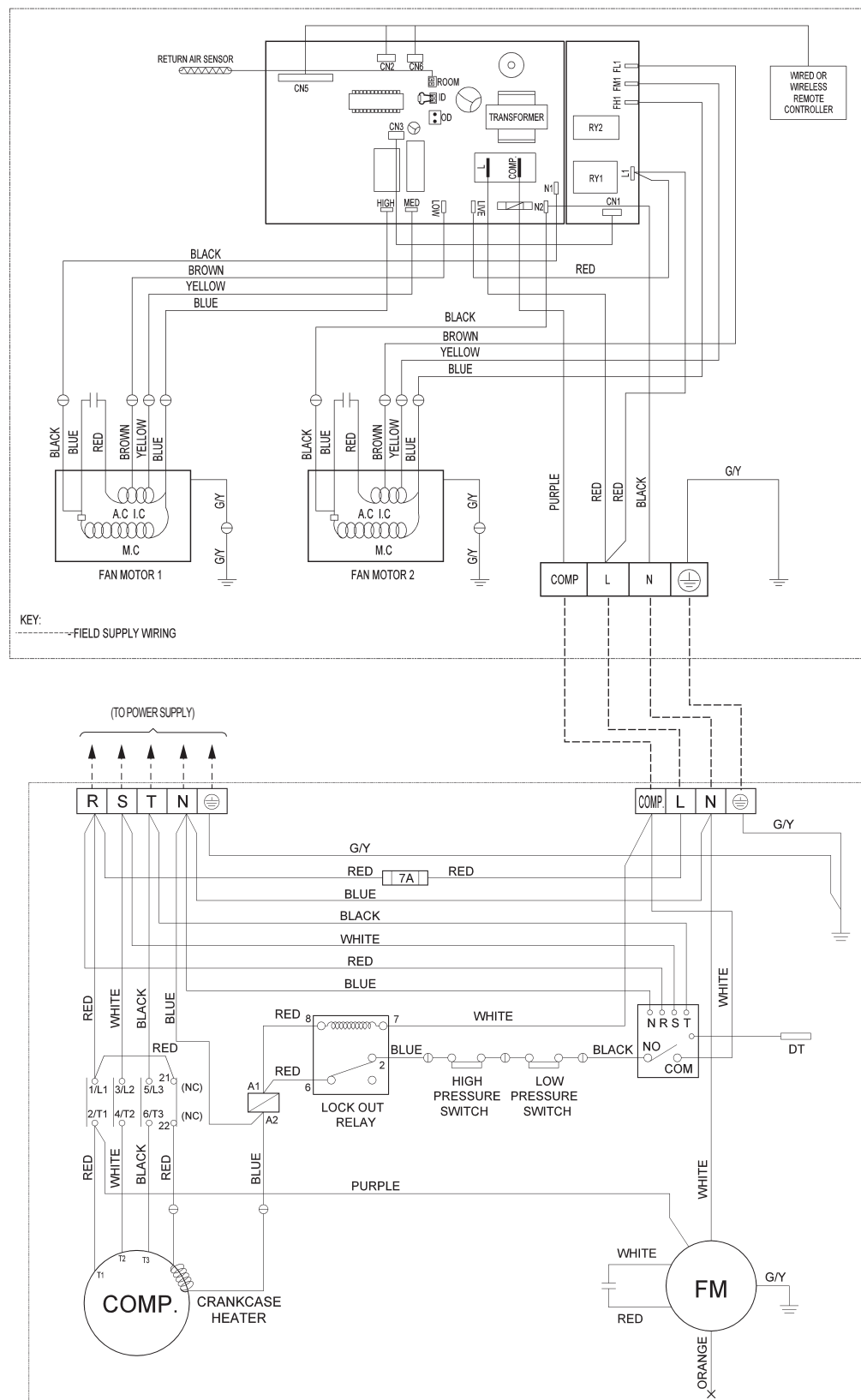
Indoor Unit
Model: FLRN90/100/125EXV1

Outdoor Unit
Model: RR90/100/125DXY1



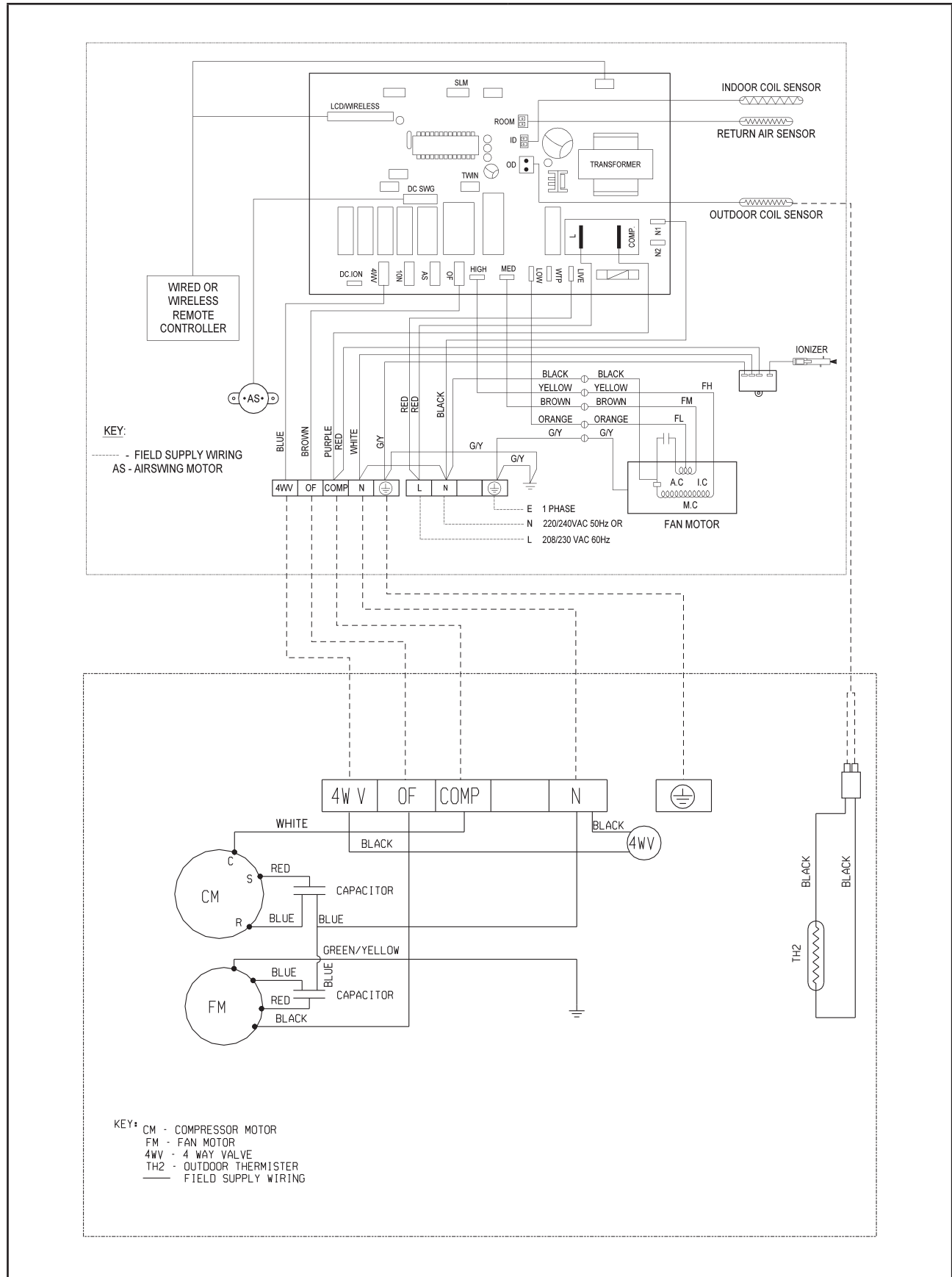
Indoor Unit
Model: FHRN140CXV1

Outdoor Unit
Model: RR140DXY1



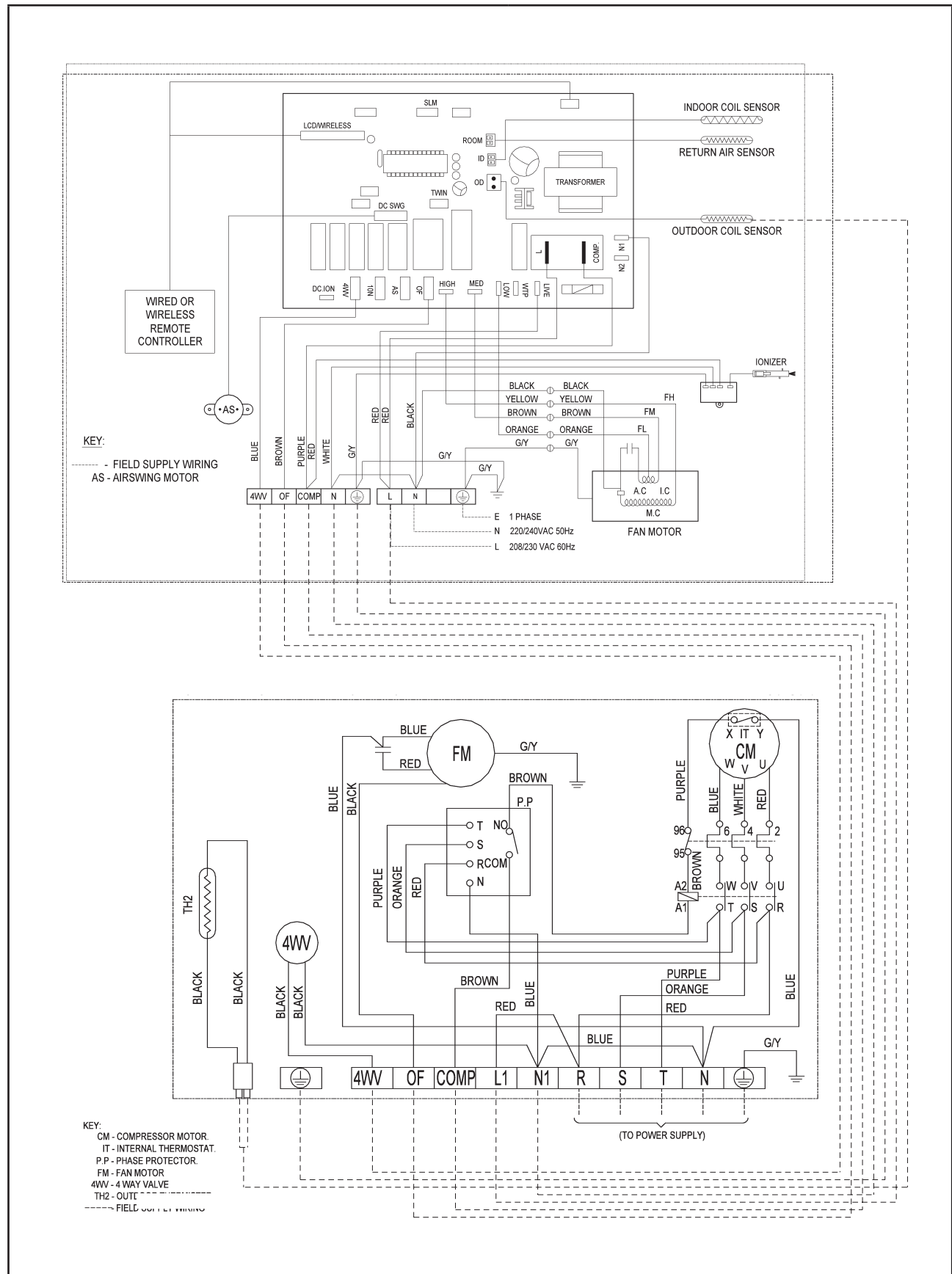
Indoor Unit
Model: FLQN50/60EXV1

Outdoor Unit
Model: RYN50/60CXV1



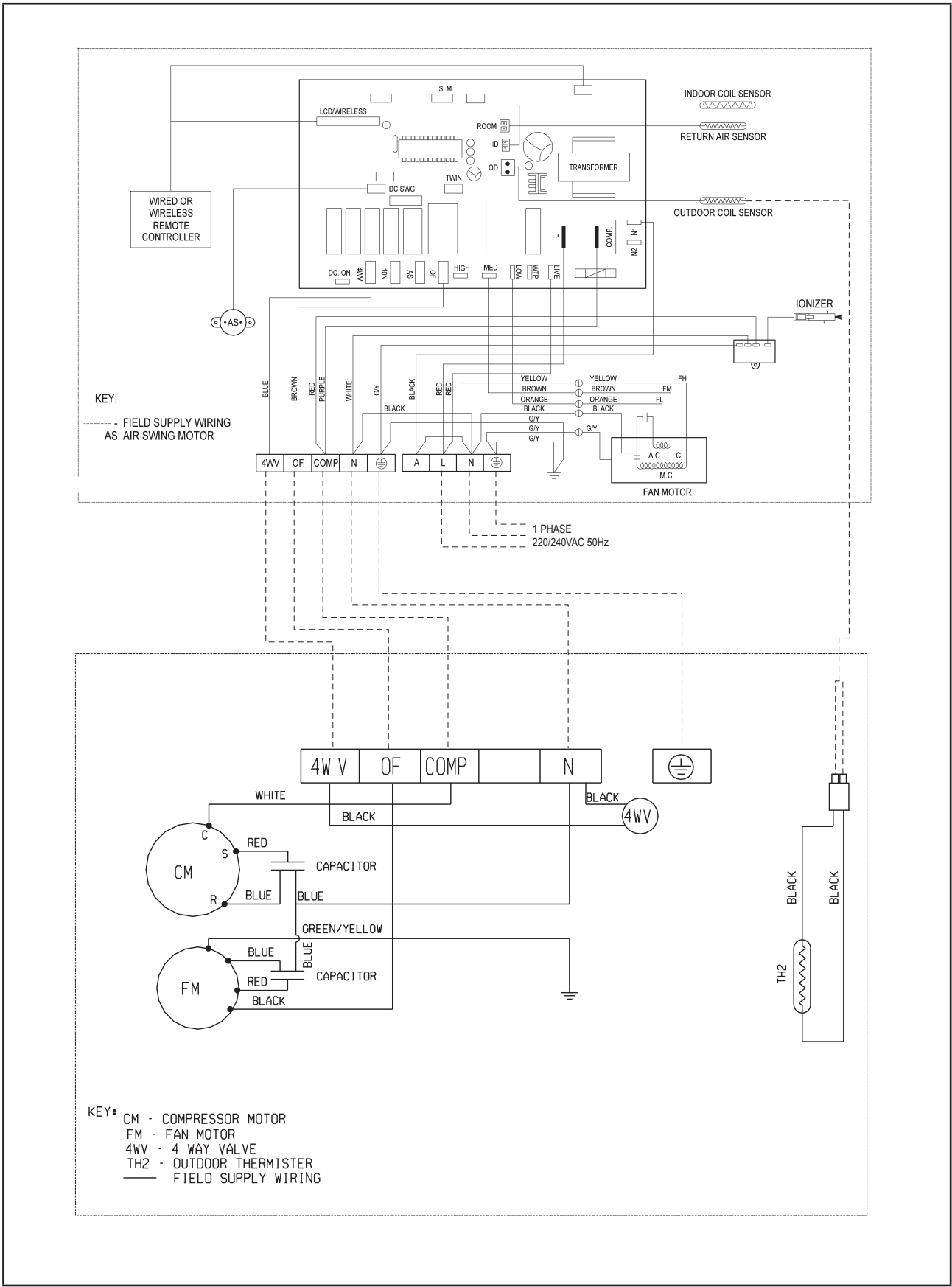
Indoor Unit
Model: FLQN50/60EXV1

Outdoor Unit
Model: RYN50/60CXY1



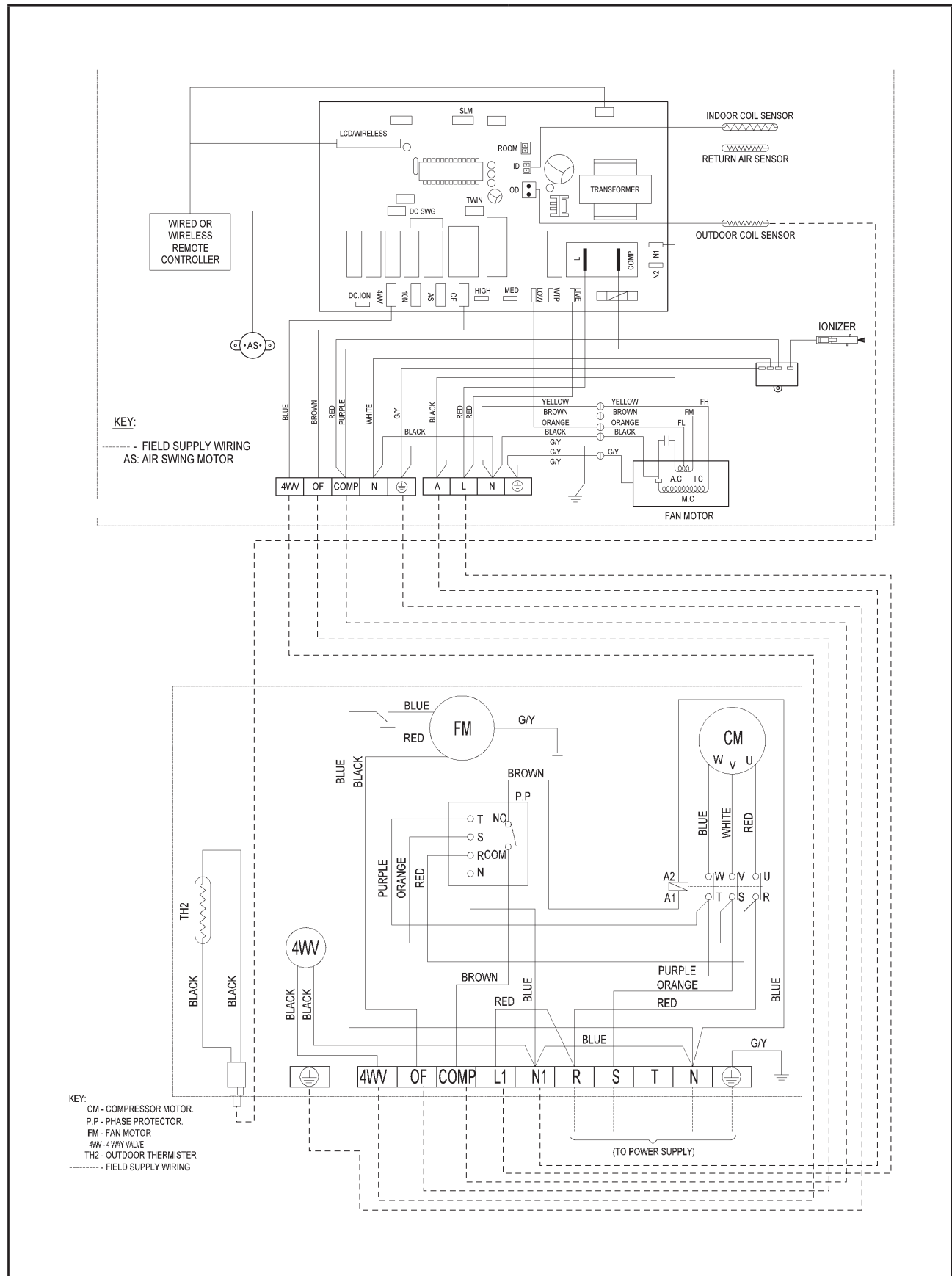
Indoor Unit
Model: FLQN71EXV1

Outdoor Unit
Model: RQ71CXV1



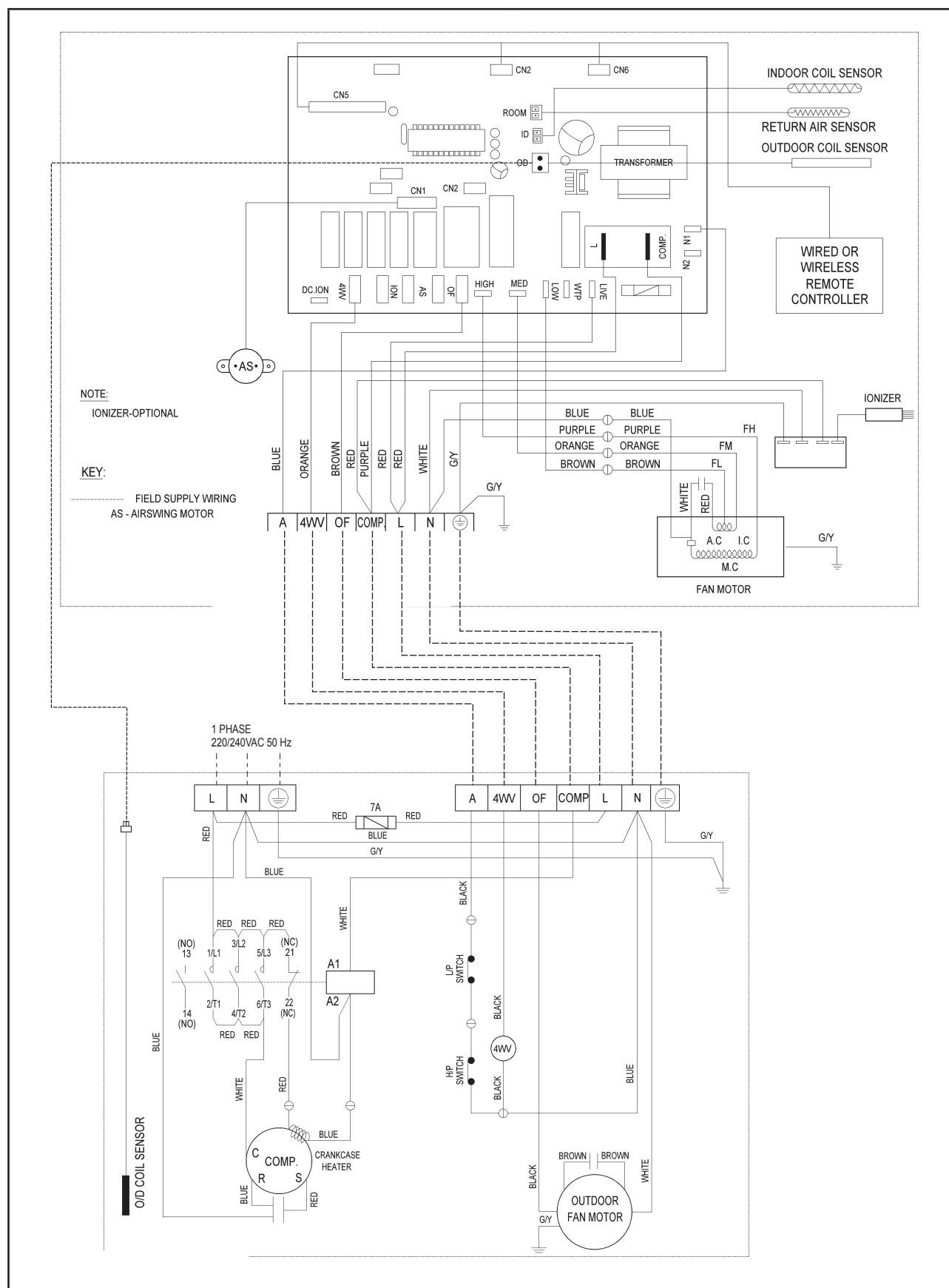
Indoor Unit
Model: FLQN71EXV1

Outdoor Unit
Model: RQ71CXY1



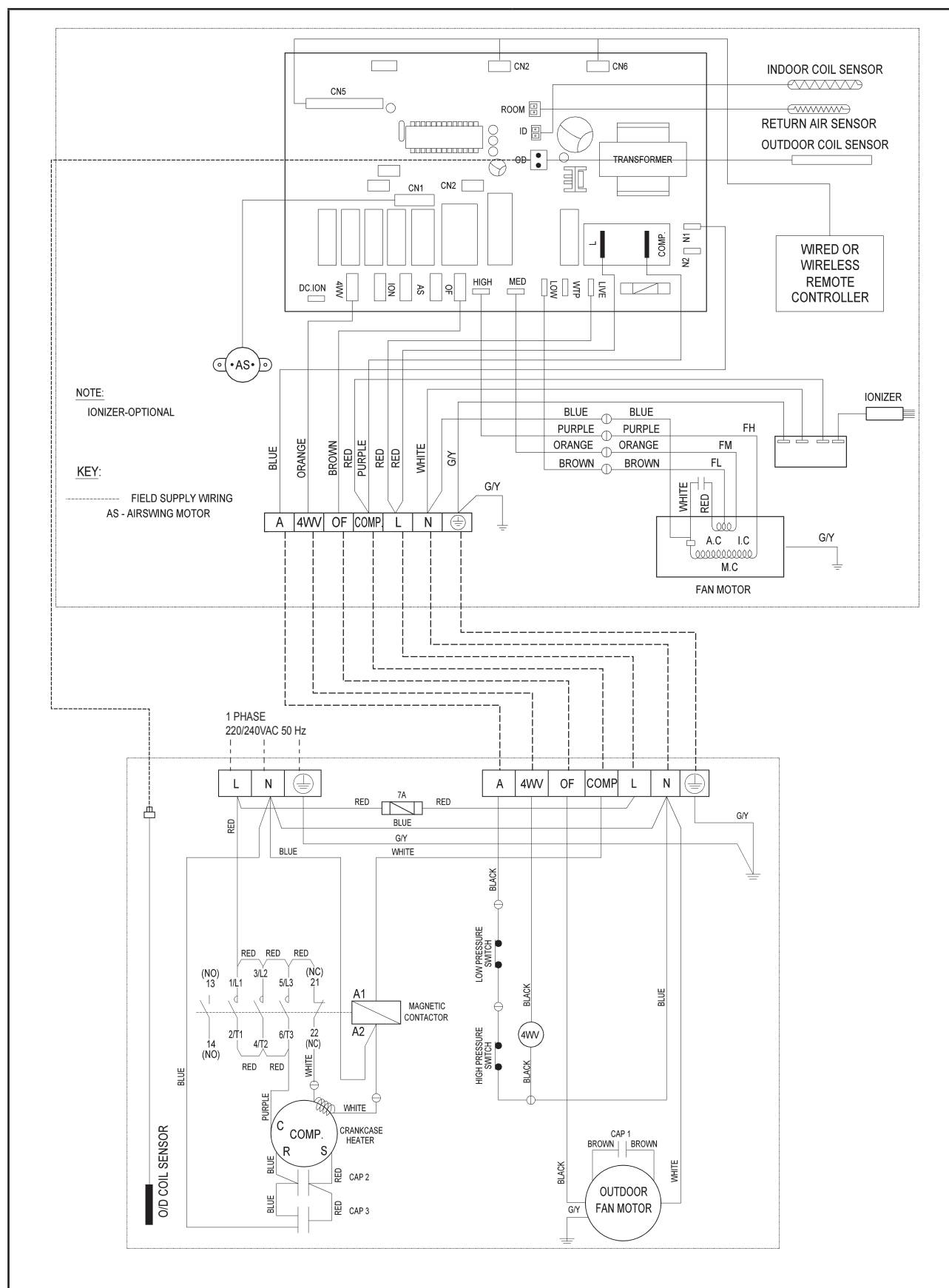
Indoor Unit
Model: FLQN90EXV1

Outdoor Unit
Model: RQ90DXV1



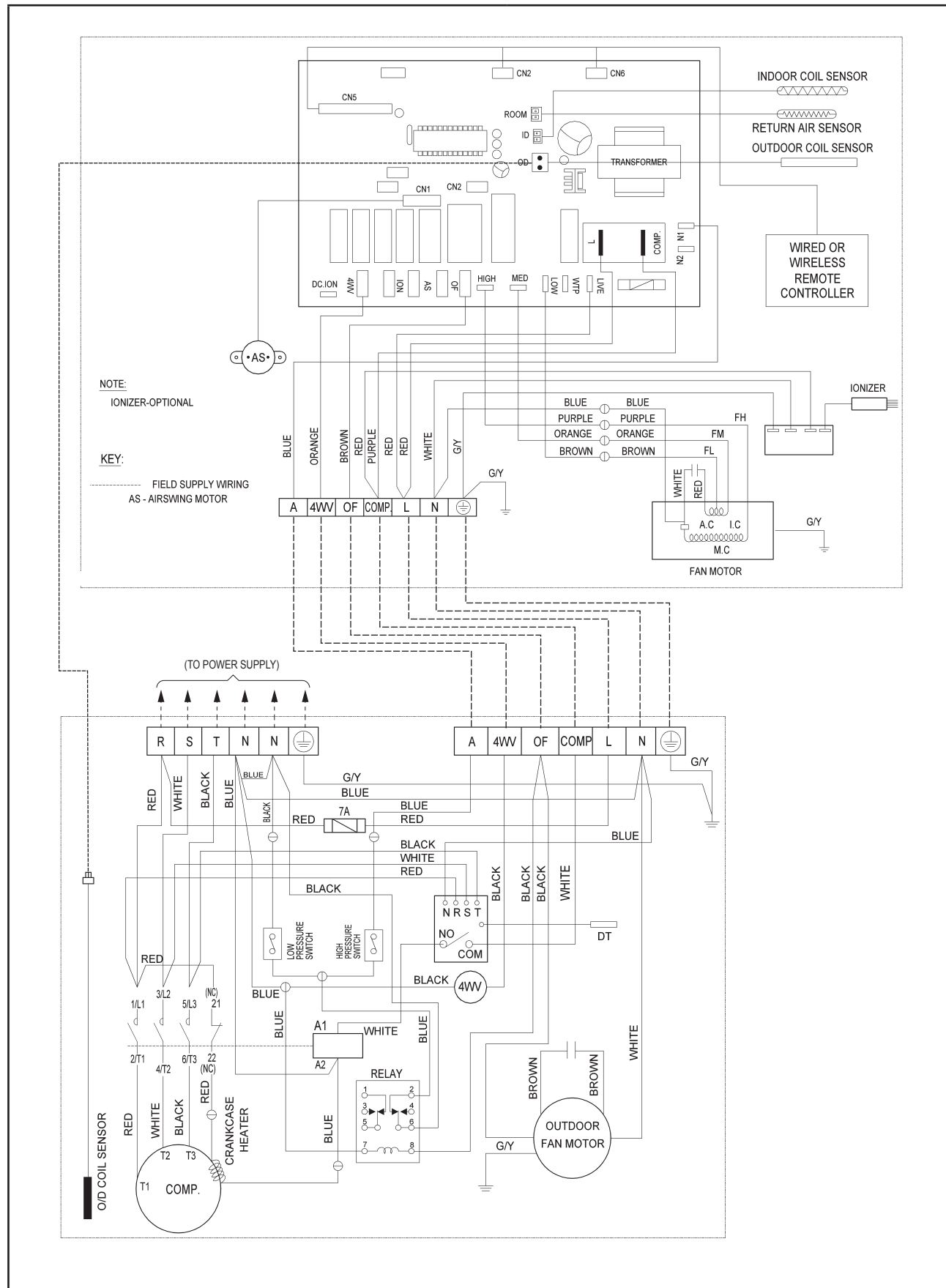
Indoor Unit
Model: FLQN100EXV1

Outdoor Unit
Model: RQ100DXV1



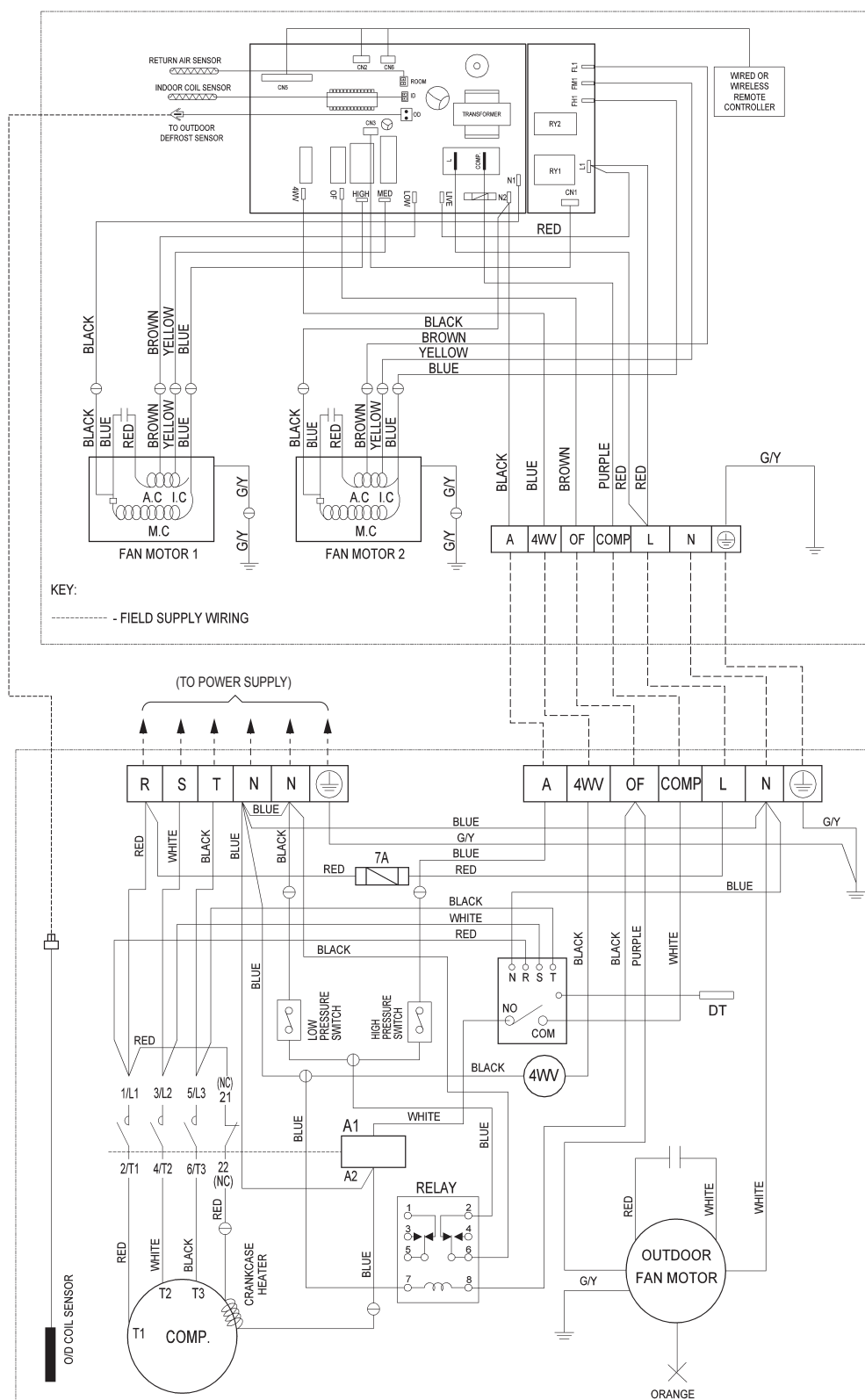
Indoor Unit
Model: FLQN90/100/125EXV1

Outdoor Unit
Model: RQ90/100/125DXY1



Indoor Unit
Model: FHQN140CXV1

Outdoor Unit
Model: RQ140DXY1



Service & Maintenance



Warning

- Disconnect from main supply before servicing the air conditioner.
- The unit is designed to give long life operation with minimum maintenance required. However, it should be regularly checked and the following items should be given due attention.

Components	Maintenance Procedures	Period
Air Filter (Indoor Unit)	1. Remove any dust adhering to the filter by using a vacuum cleaner or wash in lukewarm water (below 40°C) with a neutral cleaning detergent. 2. Rinse the filter well and dry before placing it back onto the unit. 3. Note: Never use gasoline, volatile substances or chemicals to clean the filter.	At least once every 2 weeks. More frequently if necessary.
Indoor Unit	1. Clean any dirt or dust on the grille or panel by wiping it with a soft cloth soaked in lukewarm water (below 40°C) and a neutral detergent solution. 2. Note: Never use gasoline, volatile substances or chemicals to clean the indoor unit.	At least once every 2 weeks. More frequently if necessary.
Condense Drain Pan & Pipe	1. Check the cleanliness and clean it if necessary. 2. Check the condensate water flow.	Every 3 months.
Indoor Fan	Check if there is any abnormal noise.	If necessary.
Indoor / Outdoor Coil	1. Check and remove the dirt between the fins. 2. Check and remove any obstacles which hinder air flow through the indoor or outdoor.	Every month.
Power Supply	1. Check the running current and voltage for indoor and outdoor unit. 2. Check the electrical wiring and tighten the wire onto the terminal block if necessary.	Every 2 months. Every year.
Compressor	No maintenance needed if refrigerant circuit remains sealed. However, check for refrigerant leak at joint and fitting.	Every 6 months.



Caution

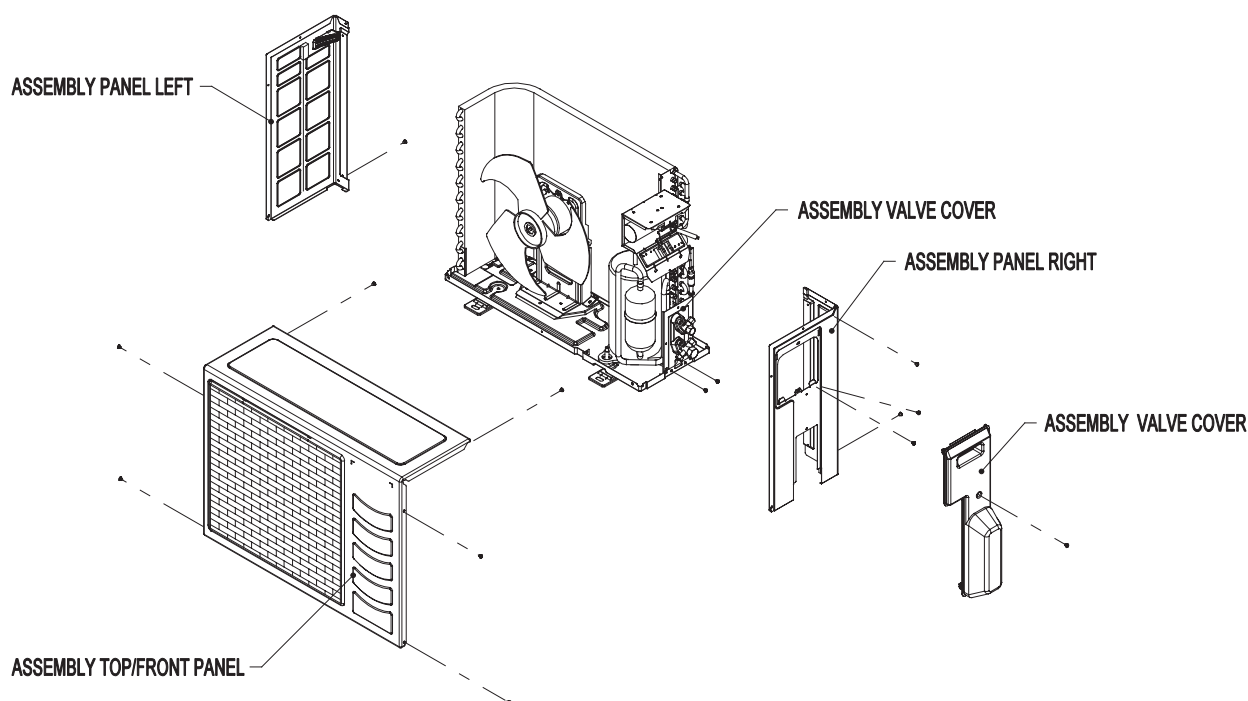
- Don't touch the metal parts of the indoor unit. It may cause an injury.
- When removing or attaching the front panel, use a robust and stable stool and watch your steps carefully.
- When removing or attaching the front panel, support the panel securely with hand to prevent from it falling.
- For cleansing, do not use hot water above 40°C, benzene, gasoline, thinner, nor other volatile oils, polishing compound, scrubbing brushes, nor other hand stuff.
- After cleaning, make sure that the front panel is securely fixed.

Pre start up maintenance

(After extended shutdown)

- ☒ Inspect thoroughly and clean indoor and outdoor units.
- ☒ Clean or replace air filters.
- ☒ Clean condensate drain line.
- ☒ Clean clogged indoor and outdoor coils.
- ☒ Check fan imbalance before operation.
- ☒ Tighten all wiring connections and panels.
- ☒ Check for refrigerant leakage.

The design of the RN, RR, RYN, RQ outdoor series allows servicing to be carried out readily and easily. The removal of the top/front and back panel make almost every part accessible.



Under normal circumstances, these outdoor units only require a check and cleaning of air intake coil surface once quarterly. However, if a unit is installed in areas subjected to much oil mist and dust, the coils must be regularly cleaned by qualified Air Conditioner Service Technicians to ensure sufficient heat exchange and proper operation. Otherwise, the systems life span may be shortened.



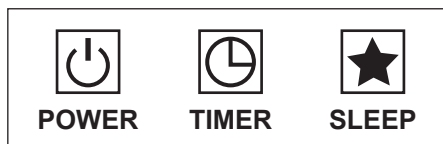
Caution

Do not charge **OXYGEN, ACETYLENE OR OTHER FLAMMABLE** and poisonous gases into the unit when performing a leakage test or an air tight test. These gases could cause severe explosion and damage if expose to high temperature and pressure.

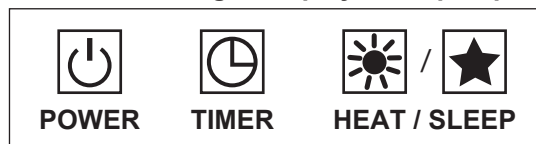
Troubleshooting

Indicator Lights

LED Indicator Light Display - Cooling Only



LED Indicator Light Display - Heatpump



LED Light Diagnostic Table

 GREEN	 ORANGE	 RED	 RED	Error Code	Operation / Faulty Indication	Action
				-	Cooling mode	-
				-	Timer On	-
				-	Sleep mode On	-
				-	Heating mode	-
				-	Auto Mode in cooling operation	-
				-	Auto Mode in heating operation	-
				E1	Room air sensor contact loose / short	Check room sensor connection / change room air sensor
				E2	Indoor coil sensor contact open	Check indoor coil sensor connection / change indoor coil sensor
				E3	Outdoor coil sensor contact open	Check outdoor coil sensor connection / change outdoor coil sensor
				E4	Compressor overload protection / Indoor or Outdoor coil sensor short	If running ampere highly increase, change the compressor. If not, replace the coil sensor.
				E6	Pump fault	Clear the clogging at drain pipe. If pump is not working, change the pump.
				E5	Gas leak	Top up refrigerant / check for leakage

 ON

 BLINKING

Phase Sequencer

The unit with Scroll Compressor only can rotate in one direction. For this reason, a protective device (phase sequencer) is fitted to prevent incorrect wiring of the electrical phases. When the three phases are not connected correctly, the phase sequencer operates, and the unit will not start.

This device is located in the control box of the outdoor unit.

The following table shows the LED indicator light for phase sequencer under normal operation and fault conditions.

LED Description	PW (Red)	P_R (Yellow)	P_S (Yellow)	P_T (Yellow)	Actions
Normal Operation	○	●	●	●	-
Reverse Phase	◐	◐	◐	◐	Switch off the unit. Check the 3 phase wiring.
T Phase Missing	◐	●	●	◐	Switch off the unit. Check the 3 phase wiring.
S Phase Missing	◐	●	◐	●	Switch off the unit. Check the 3 phase wiring.
R Phase Missing	●	●	●	●	Switch off the unit. Check the 3 phase wiring.
S & T Phase Missing*	◐	●	◐	◐	Switch off the unit. Check the 3 phase wiring.
Overload*	◐	●	●	●	High discharge temperature. Check refrigerant system.
Sensor Missing*	◐	○	○	○	Switch off the unit. Plug in sensor.

○ ON ● OFF ◐ BLINK

Note:

1. “*” indicates additional function for PP01 phase sequencer.
2. When R phase missing, no LED or buzzer will indicate the error, but relay 71 (COMMON) and 81 (NO) will cut off.
3. The unit will check discharge sensor availability only during power up.
4. All errors can only recover through manually reset.

Error Code / Fault Condition

When a malfunction of the air conditioner unit is detected, immediately switch off the main power supply before proceeding with the following troubleshooting procedures.

The following are common fault conditions and simple troubleshooting tips. If any other fault conditions which are not listed occur, contact your nearest local dealer. DO NOT attempt to troubleshoot the unit by yourself.

No	Fault conditions	Possible causes / corrective actions
1	The air conditioner unit will not resume after power failure.	The auto restart function is not functioning. Please turn on the unit with the wireless / wired controller.
2	The compressor does not operate 3 minutes after the air conditioner unit is started.	- Protection against frequent starting. - Wait for 3 or 4 minutes for the compressor to start operating by itself.
3	The airflow is too slow or room cannot be cooled sufficiently.	- The air filter is dirty. - The doors and windows are opened. - The air suction and discharge of both indoor and outdoor units are clogged or blocked. - The regulated temperature or temperature setting is not low enough.
4	Discharge airflow has bad odor.	- Cigarettes, smoke particles, perfume and others, which might have adhered onto the coil, may cause odor. - Contact your nearest dealer.
5	Condensation on the front air grille of the indoor unit.	- This is caused by air humidity after an extended period of operation. - The set temperature is too low. Increase the temperature setting and operate the unit at high fan speed.
6	Water flowing out from the air conditioner.	Switch off the unit and contact your nearest dealer. This might be due to tilted installation.
7	Hissing airflow sound from the air conditioner unit during operation.	Liquid refrigerant flowing into the evaporator coil.
8	The wireless controller display is dim.	- The batteries are discharged. - The batteries are not correctly inserted. - The assembly is not good.
9	Compressor operates continuously.	- Dirty air filter. Clean the air filter. - Temperature setting too low (cooling). Use higher temperature setting. - Temperature setting too high (heating). Use lower temperature setting.
10	No cool air comes out during cooling cycle, or no hot air comes out during heating cycle.	- Temperature setting too high (cooling). Use lower temperature setting. - Temperature setting too low (heating). Use higher temperature setting.
11	On heating cycle, warm air does not come out.	Unit is in defrost mode. Heating operation will resume after defrost cycle ends.

Diagnostic Guidelines

By means of pressure readings:

Circuit \ Data	Pressure					Probable cause
	Too low	A little low	Normal	A little high	Too high	
High side Low side					• •	1. Overcharged with refrigerant. 2. Non-condensable gases in refrigerant circuit (e.g. air). 3. Obstructed air-intake / discharge. 4. Hot air short circuiting in outdoor unit.
High side Low side	•				•	1. Poor compression /no compression (compressor defective) 2. Reversing valve leaking.
High side Low side	•	•				1. Undercharged with refrigerant. 2. Refrigerant leakage. 3. Air filter clogged / dirty (indoor unit). 4. Indoor fan locked / seized. 5. Defective defrost control, outdoor coil freeze up (heating). 6. Outdoor fan locked / seized (heating).
High side Low side				•	•	1. Outdoor fan blocked (cooling). 2. Outdoor coil dirty (cooling). 3. Indoor fan locked / seized (heating). 4. Indoor air filter clogged / dirty (heating). 5. Non-condensable gases in refrigerant circuit (e.g. air).
High side Low side				•	•	1. Air intake temperature of indoor unit too high.

