RX+DDP (06)

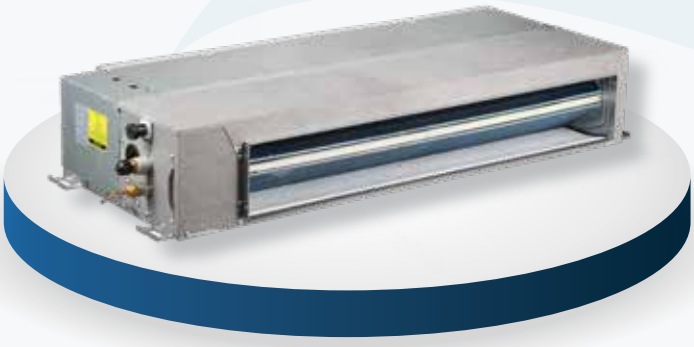
Ducted Split System

اجهـــزة تـكـيـيـف هـــواء
AIR CONDITIONING EQUIPMENT

50Hz

R-410A
REFRIGERANT

Range 1.5 TR to 5 TR
(6 kW to 18 kW)



CE

علامة الجودة الإماراتية
Emirates Quality Mark

Contents

Legend

The following legends are used throughout this manual:

AFR .....Air Flow Rate
cfm ..... Cubic feet per minute
dB ..... Decibels
EADB ....Entering Air Dry Bulb
EAWB ....Entering Air Wet Bulb
ET .....Evaporating Temperature
Hz ..... Hertz
kW .....Kilowatts
kg ..... Kilograms
kPa ..... Kilo Pascals
LADB ....Leaving Air Dry Bulb
PSI.....Pounds Per Square Inch
COP.....Coefficient of Performance
EER.....Energy Efficiency Ratio
LAWB ...Leaving Air Wet Bulb
lbs .....Pounds weight (British units)
l/s .....Liters per second
Mbh ..... 1000 Btuh
OD .....Outside Diameter
Ph .....Phase
Pa .....Pascals
SC .....Sensible Capacity
TC .....Total Capacity
TR ..... Tons of refrigeration = 12 MBH
V .....Volts

SKM reserves the right to change, in part or in whole the specifications of its Air Conditioning Equipment at any time in order to add the latest technology. Therefore, the enclosed information may change without any prior notice.

Introduction

The Ducted Split system from SKM consists of RX (a high efficiency- TOP discharge Air Cooled Condensing Unit); matching with DDP (a low noise, ceiling suspended indoor fan coil unit). This split systems are ideally suited for apartments, houses, offices, shops, small residences, and in small commercial establishments.

SKM ducted split system are available in different models covering 1.5 TR to 5 TR (6 kW to 18 kW) at nominal AHRI condition, which make them ideally suited for a very small foot print for space saving and a pleasant exterior appearance.

SKM ducted split system are designed in accordance with ESMA, other GCC regulations.

SKM ducted split units are suitable to operate in a wide range of ambient temperature. (Minimum outdoor operating ambient in cooling mode is 55°F (13°C), maximum is 125°F (52°C).

SKM ducted split units are internally wired and all that required to be done on site is ducting, refrigerant piping, power supply and suitable room thermostat installation and field wiring, which reduces the installation work and consequently keeps to a minimum cost.

SKM provides qualified service and stock of replacement parts in all major cities of the G.C.C. countries, Egypt, Jordan, and Pakistan. See back cover for details.

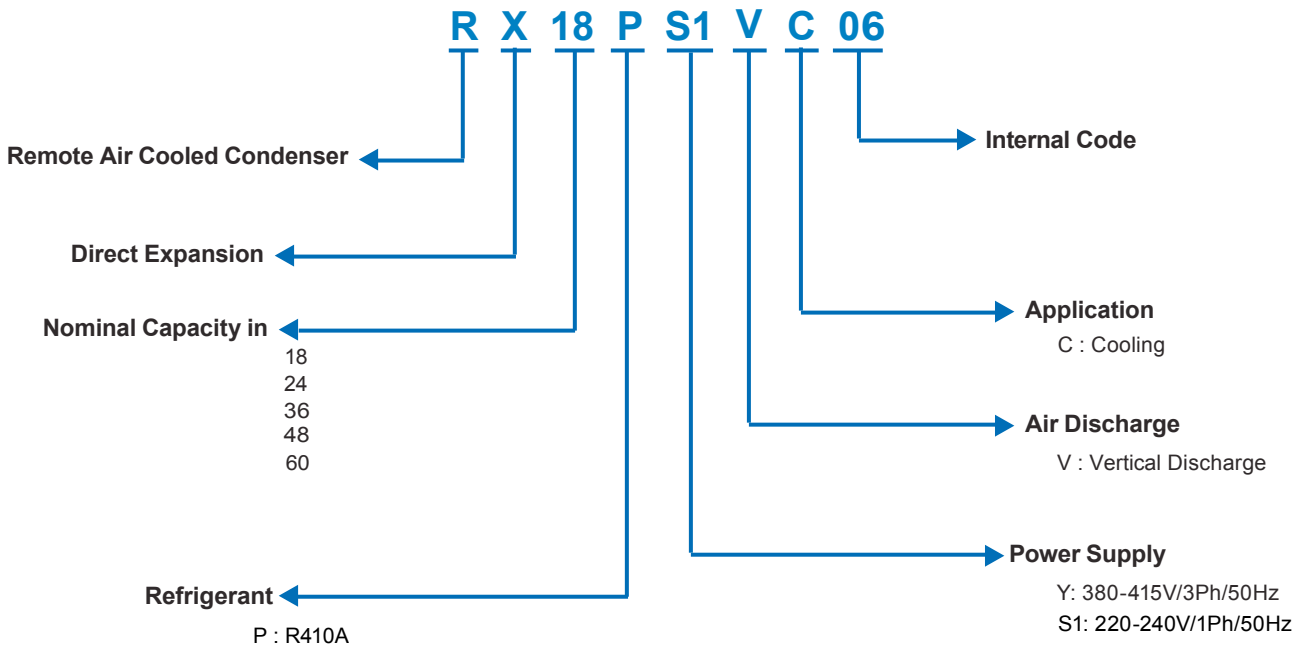
SKM Air Conditioning LLC

اجهزة تكييف هواء
AIR CONDITIONING EQUIPMENT

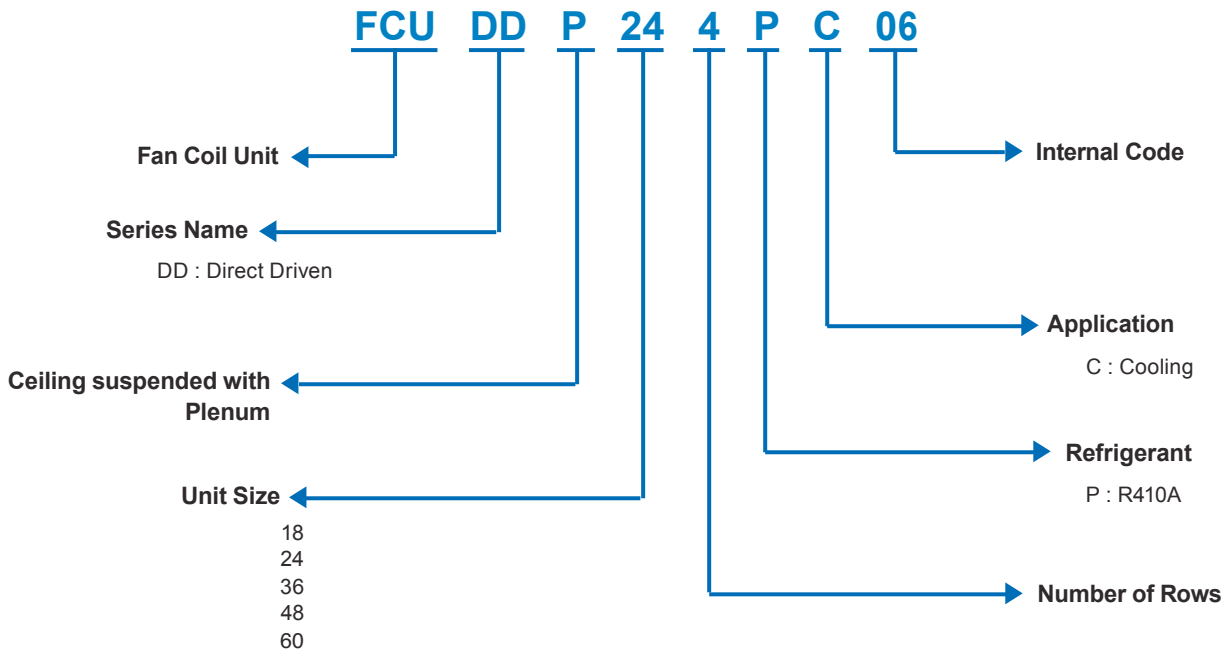
You name it.....We cool it

Nomenclature

Ducted Split Nomenclature Outdoor



Ducted Split Nomenclature Indoor



General Features

Outdoor Unit - RX

Design Features: (Air Cooled units up to 5 Tons of Refrigeration)

General

- The outdoor units are top-discharge type. The units with weatherproof heavy gauge base are factory assembled, internally wired, fully charged refrigerant and 100% run tested to check cooling operation, fan rotation and control sequence before leaving the factory.

Casing

- Unit casing constructed from Zinc coated, heavy gauge Galvanized Steel.
- G90 galvanized heavy gauge plate conforming to ASTMA 653, followed by baked on electrostatic polyester dry powder coat paint on all external panels, completely weatherized for outdoor installation and properly reinforced and brazed.
- Salt spray test for steel sheet under 1,000 hours, special treatment can be up to 2,000 hours and even more (Customized).
- Cabinet construction designed to be easy for maintenance.
- Service panels are easily removable and re-installed by removing the screws.

Compressor

- All are Copeland - totally enclosed hermetically scroll compressor.
- The Compressors have internal overload relay, High-pressure switch, low-pressure switch and discharge temperature sensor as a standard.

Condenser

- Internally finned.
- Copper tubes mechanically bonded to a configured hydrophilic Aluminum fin shall be standard. Coils are leak tested at the factory to ensure the pressure integrity. The evaporator coil is already leak tested to 3,100kPa (450 psig). Anti-corrosion treatment for coils is optional.

Outdoor fan

- The fan is direct driven by weatherproof motor (IP44 and insulation class F) to ensure the reliability & continuous operation.
- Statically and dynamically balanced drive motor design with easy maintenance-free bearing for outdoor installation.
- The fan is multi-blade, Vane-axial type, made of metal material for quiet operation and durability.

Electrical control box

- Electrical control box with the PCB board, wiring internal to the unit colored and numbered for simplified identification.
- The PCB parts can be coated with double-side moisture proof paint, and the outer side of electric box metal cover is spray-painted (Customized).

Indoor Unit - DDP

Design Features

Casing

- The unit constructed from Heavy Gauge Zinc coated steel sheets.
- The sheet steel zinc coated by hot dip process confirming to standard ASTMA 653.

Evaporator

- Internally finned.
- Copper tubes mechanically bonded to a configured hydrophilic Aluminum fin, which is a standard.
- Coils are leak tested in factory to ensure that the pressure integrity. The evaporator coil is already leak tested to 3,100 kPa (450 psig).
- Anti-corrosion treatment for coils is optional.

Drain pan

- The condensate drain pan fabricated from EPS. The inner of the drain pan adopts vacuum forming technology.

Indoor fan

- The indoor units have centrifugal fan, which is direct driven by indoor fan motor.

Filter

- The Nylon washable type filter already fixed in the frame of air return.

Specification (Outdoor Unit RX)

Outdoor Unit Model			RX 18 (06)	RX 24 (06)	RX 36 (06) - 1ph	RX 36 (06) - 3ph	RX 48 (06)	RX 60 (06)
Power supply			220 - 240V/1Ph/ 50Hz	220 - 240V/1Ph/ 50Hz	220 - 240V/1Ph/ 50Hz	380-415V/50Hz/3Ph	380-415V/50Hz/3Ph	380-415V/50Hz/3Ph
Ambient temperature in cooling		°C	17 - 54	17 - 54	17 - 54	17 - 54	17 - 54	17 - 54
Max. Power Input		W	2,400	3,000	4,000	4,000	6,000	7,450
Max. Input Current		A	11.5	14.5	20	8	12	15
Compressor	Type		Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
	Brand		Copeland	Copeland	Copeland	Copeland	Copeland	Copeland
	Capacity	Btu/h	16,300	20,300	30,000	29,300	41,500	50,000
	Qty.		1	1	1	1	1	1
	Input Power	W	1,750	2,110	2,940	2,940	4,040	4,750
	Capacitor		40μF/450V	40μF/450V	80μF/450V	\	\	\
	Rated current (RLA)	A	10	12.5	17.7	6.6	8.6	10.9
	Locked rotor Amp. (LRA)	A	52	60	98	46	51.5	64
	Thermal protector		Internal	Internal	Internal	Internal	Internal	Internal
	Refrigerant oil	ml	739	739	1,242 (POE)	1,242	1,240	1,685 (POE)
Outdoor Fan	Type		Axial fan	Axial fan	Axial fan	Axial fan	Axial fan	Axial fan
	Motor brand		Welling	Welling	Welling	Welling	Welling	Welling
	Qty.		1	1	1	1	1	1
	Capacitor		6μF/450V	6μF/450V	6μF/450V	6μF/450V	15μF/450V	15μF/450V
	Motor input	W	150	150	230	230	320	320
	Air Flow	cfm	1,400	3,000	5,100	5,100	5,770	6,850
	Speed	r/min	970	970	900	900	900	900
Coil	Fin type		Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum
	Coil (W×H)	mm	1,371×580	1,565×588	2,005×714	2,005×714	2,005×798	2,125×798
	Tube outside Dia. and type	mm	Φ5	Φ7	Φ7	Φ7	Φ7	Φ7
		\	Inner grooved	Inner grooved	Inner grooved	Inner grooved	Inner grooved	Inner grooved
Outdoor noise level		dB(A)	58	62	64	64	68	68
Air flow		m^3/h	1,400	3,000	5,100	5,100	5,770	6,850
		CFM	824	1,765	3,000	3,000	3,394	4,029
Refrigerant	Type	\	R410A	R410A	R410A	R410A	R410A	R410A
	Charge	g	1,920	2,420	3,320	3,420	4,120	4,320
Design pressure		MPa	4.4/2.6	4.4/2.6	4.4/2.6	4.4/2.6	4.4/2.6	4.4/2.6
Refrigerant pipe	Liquid side	mm	Φ 9.52 (3/8")	Φ 9.52 (3/8")	Φ 9.52 (3/8")	Φ 9.52 (3/8")	Φ 9.52 (3/8")	Φ 9.52 (3/8")
	Gas side	mm	Φ 19.1 (3/4")	Φ 19.1 (3/4")	Φ 19.1 (3/4")	Φ 19.1 (3/4")	Φ 22 (7/8")	Φ 22 (7/8")
Connection wire	Power wire (Outdoor unit)	\	3×2.5mm^2	3×2.5mm^2	3×4.0mm^2	5×2.5mm^2	5×2.5mm^2	5×2.5mm^2
	Signal wire	\	2×0.75mm^2	2×0.75mm^2	2×0.75mm^2	2×0.75mm^2	2×0.75mm^2	2×0.75mm^2
Dimension (W×H×D)		mm	554×633×554	600×633×600	710×759×710	710×759×710	710×843×710	740×843×740
Net / Gross weight		kg	55/58	59/62	86/90	81/85	89/93	98/102

Table 1

Specification (Indoor Unit DDP Matched with Outdoor Unit RX)

Matching Outdoor Unit Model			RX 18 (06)	RX 24 (06)	RX 36 (06) - 1ph	RX 36 (06) - 3ph	RX 48 (06)	RX 60 (06)
Indoor Unit Model			DDP 18 (06)	DDP 24 (06)	DDP 36 (06)		DDP 48 (06)	DDP 60 (06)
Power supply			220-240V/1ph/50Hz	220-240V/1ph/50Hz	220-240V/1ph/50Hz		220-240V/1ph/50Hz	220-240V/1ph/50Hz
Cooling (T1)	Capacity	Btu/h	18000	23800	35000	34400	48000	57000
		W	5274	6975	10258	10082	14068	16706
	Input	W	1552	2050	2865	2970	4140	4870
	EER	W/W	3.4	3.4	3.58	3.4	3.4	3.43
		Btu/h.W	11.6	11.6	12.2	11.6	11.6	11.7
Cooling (T3)	Capacity	Btu/h	16000	20600	30200	29800	41500	50000
		W	4690	6038	8851	8734	12163	14654
	Input	W	1975	2512	3512	3634	5123	6173
	EER	W/W	2.37	2.4	2.52	2.4	2.37	2.37
		Btu/h.W	8.1	8.2	8.6	8.2	8.1	8.1
Rated input		W	120	332	393	393	740	930
Rated current		A	0.6	1.53	1.8	1.8	3.27	4.1
Indoor Fan Motor	Brand		Welling	Welling	Welling		YONGAN	YONGAN
	Input (Hi/Med/Lo)	W	152/125/117	332/278/234	393/332/278		930/660/592	930/660/592
	Capacitor	\	3.5μF/450V	10μF/450V	10μF/450V		15μF/450V	15μF/450V
Indoor coil	Fin type	\	Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum		Hydrophilic Aluminum	Hydrophilic Aluminum
	Tube size	mm	Φ 7	Φ 7	Φ 7		Φ 9.52	Φ 9.52
	Tube type	\	Inner Grooved Copper Pipe	Inner Grooved Copper Pipe	Inner Grooved Copper Pipe		Inner Grooved Copper Pipe	Inner Grooved Copper Pipe
	Coil(W×H)	mm	(955×147) + (955×147)	955×336	955×336		996×355.6	996×355.6
Indoor Air Flow		m^3/h	1,125/901/831	1,743/1,530/1,338	1,850/1,675/1,472		2,759/2,536/2,332	3,312/2,759/2,536
		CFM	662/530/489	1,025/900/787	1,088/985/866		1,623/1,492/1,372	1,948/1,623/1,492
External static pressure		Pa	25 (0 - 87)	25 (0 - 100)	37 (0 - 75)		50 (0 - 125)	50 (0 - 125)
Indoor noise level		dB(A)	42/38/37	49/46/44	51/49/46		52/51/50	54/52/51
Refrigerant	Type	\	R410A	R410A	R410A		R410A	R410A
Design pressure		MPa	4.4/2.6	4.4/2.6	4.4/2.6		4.4/2.6	4.4/2.6
Refrigerant	Liquid side	mm	Φ 9.52 (3/8")	Φ 9.52 (3/8")	Φ 9.52 (3/8")		Φ 9.52 (3/8")	Φ 9.52 (3/8")
	Gas side		Φ 19.1 (3/4")	Φ 19.1 (3/4")	Φ 19.1 (3/4")		Φ 22 (7/8")	Φ 22 (7/8")
Connection Pipe	Max. equivalent Pipe length	m	55	55	55		55	55
	Max. difference in level	m	46	46	46		46	46
Connecting wire	Power wire (Indoor unit)	\	3×2.5mm^2	3×2.5mm^2	3×2.5mm^2		3×2.5mm^2	3×2.5mm^2
	Signal wire	\	2×0.75mm^2	2×0.75mm^2	2×0.75mm^2		2×0.75mm^2	2×0.75mm^2
Drain Pipe size (OD)		mm	Φ 25 (1")	Φ 25 (1")	Φ 25 (1")		Φ 25 (1")	Φ 25 (1")
Operation temperature		°C	18 - 30	18 - 30	18 - 30		18 - 30	18 - 30
Dimension (W×H×D)		mm	1,220×210×500	1,230×270×775	1,230×270×775		1,300×420×691	1,300×420×691
Wired Controller			KJR-90H/BMWC-E	KJR-90H/BMWC-E	KJR-90H/BMWC-E		KJR-90H/BMWC-E	KJR-90H/BMWC-E

Table 2

Notes:

1. Capacity ratings are based on AHRI Standard 210/240. Evaporator entering air conditions of 80/67ºF (27/19.5ºC) dry bulb/wet bulb and condenser entering air temperature of 95ºF (35ºC) dry bulb.
2. Evaporator entering air conditions of 84.2°F/66.2°F (29.0°C/19.0°C) dry bulb/wet bulb and condenser entering air temperature of 114.8°F(46°C) dry bulb, (Net Capacity).
3. Evaporator entering air conditions of 80/67ºF (27/19.5ºC) dry bulb/wet bulb and condenser entering air temperature of 118.4ºF (48ºC) dry bulb.

Combination Ratings - DDP with RX Units

RX 18 - DDP 18

Indoor air flow	ODU Temp. (DB)	IWB °C (°F)		15 (59)								17.2 (63)								19.4 (67)								21.7 (71)					
cfm (m3/h)		IDB °C (°F)		21.1 (70)		23.9 (75)		26.7 (80)		29.4 (85)		21.1 (70)		23.9 (75)		26.7 (80)		29.4 (85)		21.1 (70)		23.9 (75)		26.7 (80)		29.4 (85)		23.9 (75)		26.7 (80)		29.4 (85)	
660 (1120)	29.4 (85)	TC	kBtu/h (kW)	16.6	4.9	16.9	5.0	17.2	5.0	17.5	5.1	17.7	5.2	17.7	5.2	18.1	5.3	18.5	5.4	18.8	5.5	18.8	5.5	18.8	5.5	19.2	5.6	20	5.9	20	5.9	20	5.9
		SC	kBtu/h (kW)	13.6	4.0	16.9	5.0	17.2	5.0	17.5	5.1	10.6	3.1	14.2	4.2	18.1	5.3	18.5	5.4	7.5	2.2	11.1	3.3	14.9	4.4	18.6	5.5	8	2.3	11.6	3.4	15.4	4.5
		PI	kW	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37
	35 (95)	TC	kBtu/h (kW)	15.9	4.7	16.2	4.7	16.5	4.8	16.8	4.9	16.9	5.0	16.9	5.0	17.2	5.0	17.5	5.1	18	5.3	18	5.3	18	5.3	18.4	5.4	19.1	5.6	19.1	5.6	19.1	5.6
		SC	kBtu/h (kW)	13.2	3.9	16.2	4.7	16.5	4.8	16.8	4.9	10.3	3.0	13.9	4.1	17.2	5.0	17.5	5.1	7.2	2.1	10.8	3.2	14.4	4.2	18.2	5.3	7.6	2.2	11.3	3.3	15.1	4.4
		PI	kW	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55
	40.6 (105)	TC	kBtu/h (kW)	15.1	4.4	15.4	4.5	15.7	4.6	16	4.7	16.1	4.7	16.1	4.7	16.4	4.8	16.7	4.9	17.1	5.0	17.1	5.0	17.1	5.0	17.4	5.1	18.2	5.3	18.2	5.3	18.2	5.3
		SC	kBtu/h (kW)	12.8	3.8	15.4	4.5	15.7	4.6	16	4.7	9.8	2.9	13.5	4.0	16.4	4.8	16.7	4.9	6.8	2.0	10.4	3.0	14	4.1	17.4	5.1	7.5	2.2	11.1	3.3	14.7	4.3
		PI	kW	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.76	1.76	1.76	1.76	1.76	1.76
	46.1 (115)	TC	kBtu/h (kW)	14.2	4.2	14.5	4.2	14.8	4.3	15.1	4.4	15.1	4.4	15.1	4.4	15.4	4.5	15.7	4.6	16.1	4.7	16.1	4.7	16.1	4.7	16.4	4.8	17.1	5.0	17.1	5.0	17.1	5.0
		SC	kBtu/h (kW)	12.5	3.7	14.5	4.2	14.8	4.3	15.1	4.4	9.5	2.8	13.1	3.8	15.4	4.5	15.7	4.6	6.4	1.9	10	2.9	13.7	4.0	16.4	4.8	7	2.1	10.6	3.1	14.2	4.2
		PI	kW	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.98	1.98	1.98
	47.8 (118)	TC	kBtu/h (kW)	13.1	3.8	13.4	3.9	13.7	4.0	14	4.1	14	4.1	14	4.1	14.3	4.2	14.6	4.3	14.9	4.4	14.9	4.4	14.9	4.4	15.2	4.5	16	4.7	16	4.7	16	4.7
		SC	kBtu/h (kW)	11.9	3.5	13.4	3.9	13.7	4.0	14	4.1	9	2.6	12.6	3.7	14.3	4.2	14.6	4.3	6	1.8	9.5	2.8	13.3	3.9	15.2	4.5	6.6	1.9	10.2	3.0	13.9	4.1
		PI	kW	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.06	2.06	2.06	2.06	2.06	2.06
	51.7 (125)	TC	kBtu/h (kW)	12.1	3.5	12.3	3.6	12.5	3.7	12.8	3.8	13	3.8	13	3.8	13.3	3.9	13.6	4.0	13.9	4.1	13.9	4.1	13.9	4.1	14.2	4.2	14.8	4.3	14.8	4.3	14.8	4.3
		SC	kBtu/h (kW)	11.5	3.4	12.3	3.6	12.5	3.7	12.8	3.8	8.6	2.5	12.2	3.6	13.3	3.9	13.6	4.0	5.6	1.6	9.2	2.7	12.8	3.8	14.2	4.2	6.1	1.8	9.8	2.9	13.5	4.0
		PI	kW	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.24	2.24	2.24	2.24	2.24	2.24

Table 3

Airflow Correction Factors	Air flow		TC	SC	kW
	Low Spead	580CFM (990m^3/h)	×0.98	×0.96	×0.99
	High Spead	740CFM (1,260m^3/h)	×1.02	×1.06	×1.01

RX 24 - DDP 24

Indoor air flow	ODU Temp. (DB)	IWB °C (°F)		15 (59)								17.2 (63)								19.4 (67)								21.7 (71)					
cfm (m3/h)		IDB °C (°F)		21.1 (70)		23.9 (75)		26.7 (80)		29.4 (85)		21.1 (70)		23.9 (75)		26.7 (80)		29.4 (85)		21.1 (70)		23.9 (75)		26.7 (80)		29.4 (85)		23.9 (75)		26.7 (80)		29.4 (85)	
780 (1326)	29.4 (85)	TC	kBtu/h (kW)	22.3	6.5	22.7	6.7	23.2	6.8	23.7	6.9	23.7	6.9	23.7	6.9	23.7	6.9	24.2	7.1	25.1	7.4	25.1	7.4	25.1	7.4	25.1	7.4	26.7	7.8	26.7	7.8	26.7	7.8
		SC	kBtu/h (kW)	17.2	5.0	21.6	6.3	23.2	6.8	23.7	6.9	13.5	4.0	17.8	5.2	22	6.4	24.2	7.1	9.8	2.9	14.1	4.1	18.3	5.4	22.6	6.6	10.1	3.0	14.4	4.2	19	5.6
		kW	kW	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.86	1.86	1.86	1.86	1.86	1.86
	35 (95)	TC	kBtu/h (kW)	21	6.2	21.4	6.3	21.8	6.4	22.2	6.5	22.4	6.6	22.4	6.6	22.8	6.7	23.3	6.8	23.8	7.0	23.8	7.0	23.8	7.0	23.8	7.0	25.3	7.4	25.3	7.4	25.3	7.4
		SC	kBtu/h (kW)	16.4	4.8	21	6.2	21.8	6.4	22.2	6.5	12.8	3.8	17	5.0	21.7	6.4	23.3	6.8	9	2.6	13.3	3.9	17.6	5.2	22.1	6.5	9.6	2.8	13.9	4.1	18.2	5.3
		kW	kW	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05
	40.6 (105)	TC	kBtu/h (kW)	19.7	5.8	20.1	5.9	20.5	6.0	20.9	6.1	21	6.2	21	6.2	21.4	6.3	21.8	6.4	22.4	6.6	22.4	6.6	22.4	6.6	22.8	6.7	23.8	7.0	23.8	7.0	23.8	7.0
		SC	kBtu/h (kW)	15.8	4.6	20.1	5.9	20.5	6.0	20.9	6.1	12.2	3.6	16.6	4.9	21	6.2	21.8	6.4	8.5	2.5	12.8	3.8	17.2	5.0	21.7	6.4	9	2.6	13.3	3.9	17.6	5.2
		kW	kW	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.29	2.29	2.29	2.29	2.29	2.29
	46.1 (115)	TC	kBtu/h (kW)	18.3	5.4	18.7	5.5	19.1	5.6	19.5	5.7	19.5	5.7	19.5	5.7	19.9	5.8	20.3	5.9	20.8	6.1	20.8	6.1	20.8	6.1	21.2	6.2	22.2	6.5	22.2	6.5	22.2	6.5
		SC	kBtu/h (kW)	15.2	4.5	18.7	5.5	19.1	5.6	19.5	5.7	11.5	3.4	15.8	4.6	19.9	5.8	20.3	5.9	7.9	2.3	12.3	3.6	16.4	4.8	21	6.2	8.4	2.5	12.9	3.8	17.1	5.0
		kW	kW	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.51	2.51	2.51	2.51	2.51	2.51	2.51	2.51	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.54	2.54	2.54	2.54	2.54	2.54
	47.8 (118)	TC	kBtu/h (kW)	17.8	5.2	18.2	5.3	18.6	5.5	19	5.6	19	5.6	19	5.6	19.4	5.7	19.8	5.8	20.3	5.9	20.3	5.9	20.3	5.9	20.7	6.1	21.7	6.4	21.7	6.4	21.7	6.4
		SC	kBtu/h (kW)	15	4.4	18.2	5.3	18.6	5.5	19	5.6	11.4	3.3	15.6	4.6	19.4	5.7	19.8	5.8	7.7	2.3	12	3.5	16.2	4.7	20.7	6.1	8.2	2.4	12.6	3.7	16.9	5.0
		kW	kW	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.63	2.63	2.63	2.63	2.63	2.63
	51.7 (125)	TC	kBtu/h (kW)	16.7	4.9	17	5.0	17.3	5.1	17.6	5.2	17.8	5.2	17.8	5.2	18.2	5.3	18.6	5.5	19.1	5.6	19.1	5.6	19.1	5.6	19.5	5.7	20.4	6.0	20.4	6.0	20.4	6.0
		SC	kBtu/h (kW)	14.4	4.2	17	5.0	17.3	5.1	17.6	5.2	10.9	3.2	15.1	4.4	18.2	5.3	18.6	5.5	7.3	2.1	11.5	3.4	15.9	4.7	19.5	5.7	7.8	2.3	12	3.5	16.5	4.8
		kW	kW	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.84	2.84	2.84	2.84	2.84	2.84

Table 4

Airflow Correction Factors	Air flow		TC	SC	kW
	Low Spead	680CFM (1,156m3/h)	×0.98	×0.96	×0.99
	High Spead	880CFM (1,496m3/h)	×1.02	×1.06	×1.01

Combination Ratings - DDP with RX Units

RX 36 - DDP 36 (1ph)

Indoor air flow	ODU Temp. (DB)	IWB °C (°F)		15 (59)								17.2 (63)								19.4 (67)								21.7 (71)					
cfm (m3/h)		IDB °C (°F)		21.1 (70)		23.9 (75)		26.7 (80)		29.4 (85)		21.1 (70)		23.9 (75)		26.7 (80)		29.4 (85)		21.1 (70)		23.9 (75)		26.7 (80)		29.4 (85)		23.9 (75)		26.7 (80)		29.4 (85)	
1,000 (1700)	29.4 (85)	TC	kBtu/h (kW)	32.8	9.6	32.8	9.6	33.5	9.8	34.2	10.0	34.9	10.2	34.9	10.2	34.9	10.2	35.6	10.4	37.1	10.9	37.1	10.9	37.1	10.9	37.1	10.9	39.3	11.5	39.3	11.5	39.3	11.5
		SC	kBtu/h (kW)	24.3	7.1	29.8	8.7	33.5	9.8	34.2	10.0	19.5	5.7	25.1	7.4	30.7	9.0	35.6	10.4	14.8	4.3	20.4	6.0	26	7.6	31.5	9.2	15.7	4.6	21.2	6.2	26.7	7.8
		kW	kW	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.6	2.6	2.6	2.6	2.6	2.6
	35 (95)	TC	kBtu/h (kW)	30.9	9.1	30.9	9.1	31.5	9.2	32.1	9.4	32.9	9.6	32.9	9.6	32.9	9.6	33.6	9.8	35	10.3	35	10.3	35	10.3	35	10.3	37.2	10.9	37.2	10.9	37.2	10.9
		SC	kBtu/h (kW)	23.5	6.9	28.7	8.4	31.5	9.2	32.1	9.4	18.8	5.5	24.3	7.1	29.6	8.7	33.6	9.8	14	4.1	19.6	5.7	25.2	7.4	30.5	8.9	14.9	4.4	20.5	6.0	26	7.6
		kW	kW	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86
	40.6 (105)	TC	kBtu/h (kW)	28.9	8.5	29.5	8.6	30.1	8.8	30.7	9.0	30.8	9.0	30.8	9.0	30.8	9.0	31.4	9.2	32.8	9.6	32.8	9.6	32.8	9.6	32.8	9.6	34.9	10.2	34.9	10.2	34.9	10.2
		SC	kBtu/h (kW)	22.3	6.5	28.3	8.3	30.1	8.8	30.7	9.0	17.9	5.2	23.4	6.9	29	8.5	31.4	9.2	13.1	3.8	18.7	5.5	24.3	7.1	29.8	8.7	14	4.1	19.5	5.7	25.1	7.4
		kW	kW	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.14	3.14	3.14	3.14	3.14	3.14	3.14	3.14	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.18	3.18	3.18	3.18	3.18	3.18
	46.1 (115)	TC	kBtu/h (kW)	26.7	7.8	27.2	8.0	27.7	8.1	28.3	8.3	28.5	8.4	28.5	8.4	29.1	8.5	29.7	8.7	30.4	8.9	30.4	8.9	30.4	8.9	30.4	8.9	32.4	9.5	32.4	9.5	32.4	9.5
		SC	kBtu/h (kW)	21.4	6.3	27.2	8.0	27.7	8.1	28.3	8.3	16.8	4.9	22.2	6.5	27.9	8.2	29.7	8.7	12.2	3.6	17.6	5.2	23.1	6.8	28.6	8.4	13	3.8	18.5	5.4	24	7.0
		kW	kW	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.53	3.53	3.53	3.53	3.53	3.53
	47.8 (118)	TC	kBtu/h (kW)	26.4	7.7	26.9	7.9	27.4	8.0	27.9	8.2	28.2	8.3	28.2	8.3	28.8	8.4	29.4	8.6	30.1	8.8	30.1	8.8	30.1	8.8	30.7	9.0	32.1	9.4	32.1	9.4	32.1	9.4
		SC	kBtu/h (kW)	21.1	6.2	26.9	7.9	27.4	8.0	27.9	8.2	16.6	4.9	22.3	6.5	27.9	8.2	29.4	8.6	12	3.5	17.5	5.1	23.2	6.8	28.9	8.5	12.8	3.8	18.3	5.4	24.1	7.1
		kW	kW	3.59	3.59	3.59	3.59	3.59	3.59	3.59	3.59	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.65	3.65	3.65	3.65	3.65	3.65
	51.7 (125)	TC	kBtu/h (kW)	24.8	7.3	25.3	7.4	25.8	7.6	26.3	7.7	26.5	7.8	26.5	7.8	27	7.9	27.5	8.1	28.3	8.3	28.3	8.3	28.3	8.3	28.9	8.5	30.2	8.9	30.2	8.9	30.2	8.9
		SC	kBtu/h (kW)	20.3	5.9	25.3	7.4	25.8	7.6	26.3	7.7	15.9	4.7	21.5	6.3	27	7.9	27.5	8.1	11.3	3.3	16.7	4.9	22.4	6.6	28	8.2	12.1	3.5	17.8	5.2	23.3	6.8
		kW	kW	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.91	3.91	3.91	3.91	3.91	3.91	3.91	3.91	3.94	3.94	3.94	3.94	3.94	3.94

Table 5

Airflow Correction Factors	Air flow		TC	SC	kW
	Low Spead	880CFM (1,496m3/h)	×0.98	×0.96	×0.99
	High Spead	1,130CFM (1,921m3/h)	×1.02	×1.06	×1.01

RX 36 - DDP 36 (3ph)

Indoor air flow	ODU Temp. (DB)	IWB °C (°F)		15 (59)								17.2 (63)								19.4 (67)								21.7 (71)					
cfm (m3/h)		IDB °C (°F)		21.1 (70)		23.9 (75)		26.7 (80)		29.4 (85)		21.1 (70)		23.9 (75)		26.7 (80)		29.4 (85)		21.1 (70)		23.9 (75)		26.7 (80)		29.4 (85)		23.9 (75)		26.7 (80)		29.4 (85)	
1,000 (1,700)	29.4 (85)	TC	kBtu/h (kW)	32.2	9.4	32.2	9.4	32.8	9.6	33.5	9.8	34.2	10.0	34.2	10.0	34.2	10.0	34.9	10.2	36.3	10.6	36.3	10.6	36.3	10.6	36.3	10.6	38.6	11.3	38.6	11.3	38.6	11.3
		SC	kBtu/h (kW)	23.8	7.0	29.3	8.6	32.8	9.6	33.5	9.8	18.8	5.5	24.6	7.2	30.1	8.8	34.9	10.2	14.2	4.2	19.6	5.7	25	7.3	30.9	9.1	15.1	4.4	20.5	6.0	25.9	7.6
		kW	kW	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.69	2.69	2.69	2.69	2.69	2.69
	35 (95)	TC	kBtu/h (kW)	30.4	8.9	30.4	8.9	31	9.1	31.6	9.3	32.3	9.5	32.3	9.5	32.3	9.5	32.9	9.6	34.4	10.1	34.4	10.1	34.4	10.1	34.4	10.1	36.5	10.7	36.5	10.7	36.5	10.7
		SC	kBtu/h (kW)	22.8	6.7	28.3	8.3	31	9.1	31.6	9.3	18.1	5.3	23.6	6.9	29.1	8.5	32.9	9.6	13.4	3.9	18.9	5.5	24.4	7.2	29.9	8.8	13.9	4.1	19.7	5.8	25.2	7.4
		kW	kW	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97
	40.6 (105)	TC	kBtu/h (kW)	28.5	8.4	29.1	8.5	29.7	8.7	30.3	8.9	30.4	8.9	30.4	8.9	30.4	8.9	31	9.1	32.3	9.5	32.3	9.5	32.3	9.5	32.3	9.5	34.4	10.1	34.4	10.1	34.4	10.1
		SC	kBtu/h (kW)	21.9	6.4	27.6	8.1	29.7	8.7	30.3	8.9	17.3	5.1	22.8	6.7	28.3	8.3	31	9.1	12.6	3.7	18.1	5.3	23.6	6.9	29.1	8.5	13.1	3.8	18.6	5.5	24.1	7.1
		kW	kW	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.27	3.27	3.27	3.27	3.27	3.27	3.27	3.27	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.31	3.31	3.31	3.31	3.31	3.31
	46.1 (115)	TC	kBtu/h (kW)	26.4	7.7	26.9	7.9	27.4	8.0	27.9	8.2	28.2	8.3	28.2	8.3	28.8	8.4	29.4	8.6	30.1	8.8	30.1	8.8	30.1	8.8	30.1	8.8	32.1	9.4	32.1	9.4	32.1	9.4
		SC	kBtu/h (kW)	20.9	6.1	26.6	7.8	27.4	8.0	27.9	8.2	16.1	4.7	21.7	6.4	27.4	8.0	29.4	8.6	11.4	3.3	17.2	5.0	22.6	6.6	28	8.2	12.2	3.6	17.7	5.2	23.4	6.9
		kW	kW	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.68	3.68	3.68	3.68	3.68	3.68
	47.8 (118)	TC	kBtu/h (kW)	25.7	7.5	26.2	7.7	26.7	7.8	27.2	8.0	27.5	8.1	27.5	8.1	28.1	8.2	28.7	8.4	29.4	8.6	29.4	8.6	29.4	8.6	30	8.8	31.3	9.2	31.3	9.2	31.3	9.2
		SC	kBtu/h (kW)	20.6	6.0	26.2	7.7	26.7	7.8	27.2	8.0	16	4.7	21.5	6.3	27.3	8.0	28.7	8.4	11.2	3.3	16.8	4.9	22.3	6.5	27.9	8.2	11.9	3.5	17.5	5.1	23.2	6.8
		kW	kW	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.81	3.81	3.81	3.81	3.81	3.81
	51.7 (125)	TC	kBtu/h (kW)	24.1	7.1	24.6	7.2	25.1	7.4	25.6	7.5	25.8	7.6	25.8	7.6	26.3	7.7	26.8	7.9	27.6	8.1	27.6	8.1	27.6	8.1	28.2	8.3	29.4	8.6	29.4	8.6	29.4	8.6
		SC	kBtu/h (kW)	19.8	5.8	24.6	7.2	25.1	7.4	25.6	7.5	15.2	4.5	20.6	6.0	26.3	7.7	26.8	7.9	10.5	3.1	16	4.7	21.5	6.3	27.4	8.0	11.2	3.3	16.8	4.9	22.3	6.5
		kW	kW	4.05	4.05	4.05	4.05	4.05	4.05	4.05	4.05	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.09	4.09	4.09	4.09	4.09	4.09	4.09	4.09	4.11	4.11	4.11	4.11	4.11	4.11

Table 6

Airflow Correction Factors	Air flow		TC	SC	kW
	Low Spead	880CFM (1,496m3/h)	×0.98	×0.96	×0.99
	High Spead	1,130CFM (1,921m3/h)	×1.02	×1.06	×1.01

Combination Ratings - DDP with RX Units

RX 48 - DDP 48

Indoor air flow	ODU Temp. (DB)	IWB °C (°F)		15 (59)								17.2 (63)								19.4 (67)								21.7 (71)					
cfm (m3/h)		IDB °C (°F)		21.1 (70)		23.9 (75)		26.7 (80)		29.4 (85)		21.1 (70)		23.9 (75)		26.7 (80)		29.4 (85)		21.1 (70)		23.9 (75)		26.7 (80)		29.4 (85)		23.9 (75)		26.7 (80)		29.4 (85)	
1,550 (2635)	29.4 (85)	TC	kBtu/h (kW)	44.9	13.2	45.8	13.4	46.7	13.7	47.6	14.0	47.7	14.0	47.7	14.0	47.7	14.0	48.7	14.3	50.7	14.9	50.7	14.9	50.7	14.9	50.7	14.9	53.8	15.8	53.8	15.8	53.8	15.8
		SC	kBtu/h (kW)	34.1	10.0	43.1	12.6	46.7	13.7	47.6	14.0	26.7	7.8	35.3	10.3	43.9	12.9	48.7	14.3	19.8	5.8	27.9	8.2	36.5	10.7	45.1	13.2	20.4	6.0	29.1	8.5	37.7	11.0
		kW	kW	3.72	3.72	3.72	3.72	3.72	3.72	3.72	3.72	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.75	3.75	3.75	3.75	3.75	3.75
	35 (95)	TC	kBtu/h (kW)	42.4	12.4	43.2	12.7	44.1	12.9	45	13.2	45.1	13.2	45.1	13.2	46	13.5	46.9	13.7	48	14.1	48	14.1	48	14.1	48	14.1	51	14.9	51	14.9	51	14.9
		SC	kBtu/h (kW)	33.1	9.7	41.9	12.3	44.1	12.9	45	13.2	25.7	7.5	34.3	10.1	43.2	12.7	46.9	13.7	18.2	5.3	26.9	7.9	35.5	10.4	44.2	13.0	19.4	5.7	28.1	8.2	36.7	10.8
		kW	kW	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.12	4.12	4.12	4.12	4.12	4.12	4.12	4.12	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14
	40.6 (105)	TC	kBtu/h (kW)	39.7	11.6	40.5	11.9	41.3	12.1	42.1	12.3	42.4	12.4	42.4	12.4	43.2	12.7	44.1	12.9	45.1	13.2	45.1	13.2	45.1	13.2	46	13.5	48	14.1	48	14.1	48	14.1
		SC	kBtu/h (kW)	31.8	9.3	40.5	11.9	41.3	12.1	42.1	12.3	24.6	7.2	33.1	9.7	41.9	12.3	44.1	12.9	17.1	5.0	25.7	7.5	34.3	10.1	43.2	12.7	18.2	5.3	26.9	7.9	35.5	10.4
		kW	kW	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.59	4.59	4.59	4.59	4.59	4.59	4.59	4.59	4.62	4.62	4.62	4.62	4.62	4.62
	46.1 (115)	TC	kBtu/h (kW)	36.9	10.8	37.6	11.0	38.4	11.3	39.2	11.5	39.4	11.5	39.4	11.5	40.2	11.8	41	12.0	42	12.3	42	12.3	42	12.3	42.8	12.5	44.7	13.1	44.7	13.1	44.7	13.1
		SC	kBtu/h (kW)	30.3	8.9	37.6	11.0	38.4	11.3	39.2	11.5	23.2	6.8	31.9	9.3	40.2	11.8	41	12.0	16	4.7	24.4	7.2	33.2	9.7	41.9	12.3	17	5.0	25.5	7.5	34.4	10.1
		kW	kW	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.13	5.13	5.13	5.13	5.13	5.13
	47.8 (118)	TC	kBtu/h (kW)	35.9	10.5	36.6	10.7	37.3	10.9	38	11.1	38.4	11.3	38.4	11.3	39.2	11.5	40	11.7	41	12.0	41	12.0	41	12.0	41.8	12.3	43.7	12.8	43.7	12.8	43.7	12.8
		SC	kBtu/h (kW)	29.8	8.7	36.6	10.7	37.3	10.9	38	11.1	22.7	6.7	31.5	9.2	39.2	11.5	40	11.7	15.6	4.6	24.2	7.1	32.8	9.6	41.4	12.1	16.6	4.9	25.3	7.4	33.6	9.8
		kW	kW	5.22	5.22	5.22	5.22	5.22	5.22	5.22	5.22	5.24	5.24	5.24	5.24	5.24	5.24	5.24	5.24	5.27	5.27	5.27	5.27	5.27	5.27	5.27	5.27	5.3	5.3	5.3	5.3	5.3	5.3
	51.7 (125)	TC	kBtu/h (kW)	33.6	9.8	34.3	10.1	35	10.3	35.7	10.5	36	10.6	36	10.6	36.7	10.8	37.4	11.0	38.4	11.3	38.4	11.3	38.4	11.3	39.2	11.5	41	12.0	41	12.0	41	12.0
		SC	kBtu/h (kW)	28.9	8.5	34.3	10.1	35	10.3	35.7	10.5	21.6	6.3	30.2	8.9	36.7	10.8	37.4	11.0	14.6	4.3	23	6.7	31.5	9.2	39.2	11.5	15.6	4.6	24.2	7.1	32.8	9.6
		kW	kW	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.74	5.74	5.74	5.74	5.74	5.74

Airflow Correction Factors	Air flow		TC	SC	kW
	Low Spead	1,360CFM (2,312m3/h)	×0.98	×0.96	×0.99
	High Spead	1,740CFM (2,958m3/h)	×1.02	×1.06	×1.01

Table 7

Combination Ratings - DDP with RX Units

RX 60 - DDP 60

Indoor air flow	ODU Temp. (DB)	IWB °C (°F)		15 (59)								17.2 (63)								19.4 (67)								21.7 (71)					
cfm (m3/h)		IDB °C (°F)		21.1 (70)		23.9 (75)		26.7 (80)		29.4 (85)		21.1 (70)		23.9 (75)		26.7 (80)		29.4 (85)		21.1 (70)		23.9 (75)		26.7 (80)		29.4 (85)		23.9 (75)		26.7 (80)		29.4 (85)	
1,700 (2,890)	29.4 (85)	TC	kBtu/h (kW)	53	15.5	53	15.5	54.1	15.9	55.2	16.2	56.4	16.5	56.4	16.5	56.4	16.5	57.5	16.9	60	17.6	60	17.6	60	17.6	60	17.6	63.6	18.6	63.6	18.6	63.6	18.6
		SC	kBtu/h (kW)	39.8	11.7	49.3	14.4	54.1	15.9	55.2	16.2	32.1	9.4	41.2	12.1	50.8	14.9	57.5	16.9	24	7.0	33.6	9.8	42.6	12.5	52.2	15.3	25.4	7.4	35	10.3	43.9	12.9
		kW	kW	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.31	4.33	4.33	4.33	4.33	4.33	4.33
	35 (95)	TC	kBtu/h (kW)	50.3	14.7	51.3	15.0	52.3	15.3	53.3	15.6	53.6	15.7	53.6	15.7	53.6	15.7	54.7	16.0	57	16.7	57	16.7	57	16.7	57	16.7	60.6	17.8	60.6	17.8	60.6	17.8
		SC	kBtu/h (kW)	38.7	11.3	48.2	14.1	52.3	15.3	53.3	15.6	30.6	9.0	40.2	11.8	49.3	14.4	54.7	16.0	22.8	6.7	32.5	9.5	41.6	12.2	50.7	14.9	24.2	7.1	33.3	9.8	43	12.6
		kW	kW	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.85	4.85	4.85	4.85	4.85	4.85	4.85	4.85	4.87	4.87	4.87	4.87	4.87	4.87	4.87	4.87	4.87	4.87	4.87	4.87	4.87	4.87
	40.6 (105)	TC	kBtu/h (kW)	47.4	13.9	48.3	14.2	49.3	14.4	50.3	14.7	50.6	14.8	50.6	14.8	51.6	15.1	52.6	15.4	53.8	15.8	53.8	15.8	53.8	15.8	53.8	15.8	57.3	16.8	57.3	16.8	57.3	16.8
		SC	kBtu/h (kW)	37.4	11.0	46.9	13.7	49.3	14.4	50.3	14.7	29.3	8.6	39	11.4	48.5	14.2	52.6	15.4	21.5	6.3	30.7	9.0	40.4	11.8	49.5	14.5	22.9	6.7	32.1	9.4	41.8	12.3
		kW	kW	5.43	5.43	5.43	5.43	5.43	5.43	5.43	5.43	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.48	5.48	5.48	5.48	5.48	5.48	5.48	5.48	5.51	5.51	5.51	5.51	5.51	5.51
	46.1 (115)	TC	kBtu/h (kW)	44.3	13.0	45.2	13.2	46.1	13.5	47	13.8	47.3	13.9	47.3	13.9	48.2	14.1	49.2	14.4	50.3	14.7	50.3	14.7	50.3	14.7	51.3	15.0	53.6	15.7	53.6	15.7	53.6	15.7
		SC	kBtu/h (kW)	35.9	10.5	45.2	13.2	46.1	13.5	47	13.8	27.9	8.2	37.4	11.0	47.2	13.8	49.2	14.4	20.1	5.9	29.7	8.7	38.7	11.3	48.7	14.3	21.4	6.3	31.1	9.1	40.2	11.8
		kW	kW	6.11	6.11	6.11	6.11	6.11	6.11	6.11	6.11	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.17	6.17	6.17	6.17	6.17	6.17	6.17	6.17	6.21	6.21	6.21	6.21	6.21	6.21
	47.8 (118)	TC	kBtu/h (kW)	42.1	12.3	42.9	12.6	43.8	12.8	44.7	13.1	45	13.2	45	13.2	45.9	13.5	46.8	13.7	48.1	14.1	48.1	14.1	48.1	14.1	49.1	14.4	51.3	15.0	51.3	15.0	51.3	15.0
		SC	kBtu/h (kW)	34.5	10.1	42.9	12.6	43.8	12.8	44.7	13.1	27	7.9	36.5	10.7	45.9	13.5	46.8	13.7	19.2	5.6	28.4	8.3	38	11.1	47.6	14.0	20.5	6.0	30.3	8.9	39.5	11.6
		kW	kW	6.33	6.33	6.33	6.33	6.33	6.33	6.33	6.33	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.36	6.39	6.39	6.39	6.39	6.39	6.39	6.39	6.39	6.43	6.43	6.43	6.43	6.43	6.43
	51.7 (125)	TC	kBtu/h (kW)	39.2	11.5	40	11.7	40.8	12.0	41.6	12.2	42	12.3	42	12.3	42.8	12.5	43.7	12.8	44.9	13.2	44.9	13.2	44.9	13.2	45.8	13.4	48	14.1	48	14.1	48	14.1
		SC	kBtu/h (kW)	33.3	9.8	40	11.7	40.8	12.0	41.6	12.2	25.6	7.5	34.9	10.2	42.8	12.5	43.7	12.8	18	5.3	27.4	8.0	36.8	10.8	45.8	13.4	19.2	5.6	28.8	8.4	38.4	11.3
		kW	kW	6.89	6.89	6.89	6.89	6.89	6.89	6.89	6.89	6.92	6.92	6.92	6.92	6.92	6.92	6.92	6.92	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	7	7	7	7	7	7

Airflow Correction Factors	Air flow		TC	SC	kW
	Low Spead	1,550CFM (2,635m3/h)	×0.98	×0.96	×0.99
	High Spead	2,000CFM (3,400m3/h)	×1.02	×1.06	×1.01

Table 8

Notes:

1. For matched conditions,at entering condition other than shown;consult SKM.
2. Direct interpolation is permissible but extrapolation is prohibited.
3. Combination ratings are based on indoor and outdoor units at the same elevation and connected by 25 ft. (7.6 m) of refrigerant tubing.For tubing in excess of 25 feet,slight capacity reduction will occur. Do not exceed 120 feet tubing length without checking with SKM.
4. Cooling capacities listed do not include a deduction for fan motor heat.
5. TC - total cooling capacity in Mbh (1000 Btuh).
SC - sensible cooling capacity in Mbh (1000 Btuh).
PI - Power input in kW.

To convert Mbh to kW,divide by 3.413. / To convert cfm to L/s,divide by 2.12.

* Power input mentioned in this page should not be used for cable or fuse selection. MCA and MFA values given in the electrical data page (10) should be referred for the same.

Electrical Data - RX & DDP

Model	Outdoor Unit				Power Supply			Compressor		OFM	
	Hz	Voltage	Min.	Max.	MCA	TOCA	MFA	MSC	RLA	KW	FLA
RX 18	50	220-240V	198V	254V	12	20	25	52	9	0.085	0.68
RX 24	50	220-240V	198V	254V	14.5	25.7	30	60	11.2	0.085	0.68
RX 36 - 1ph	50	220-240V	198V	254V	21	36.9	40	98	15.9	0.13	1
RX 36 - 3ph	50	380-415V	342V	440V	8.6	15	20	46	6	0.13	1
RX 48	50	380-415V	342V	440V	11.2	19	25	51.5	7.8	0.23	1.1
RX 60	50	380-415V	342V	440V	15.1	26	30	64	10.9	0.23	1.4

Table 9

Model	Indoor Unit				Power Supply		IFM	
	Hz	Voltage	Min.	Max.	MCA	MFA	kW	FLA
DDP 18	50	220-240V	198V	254V	0.67	15	0.144	0.67
DDP 24	50	220-240V	198V	254V	1.53	15	0.332	1.53
DDP 36	50	220-240V	198V	254V	1.8	15	0.393	1.8
DDP 48	50	220-240V	198V	254V	3.27	15	0.74	3.27
DDP 60	50	220-240V	198V	254V	4.1	15	0.93	4.1

Table 10

Thermostat (Wired Controller)

SKM Wired Controller is a wall mounted decorative type controller, with a large backlit LCD screen.

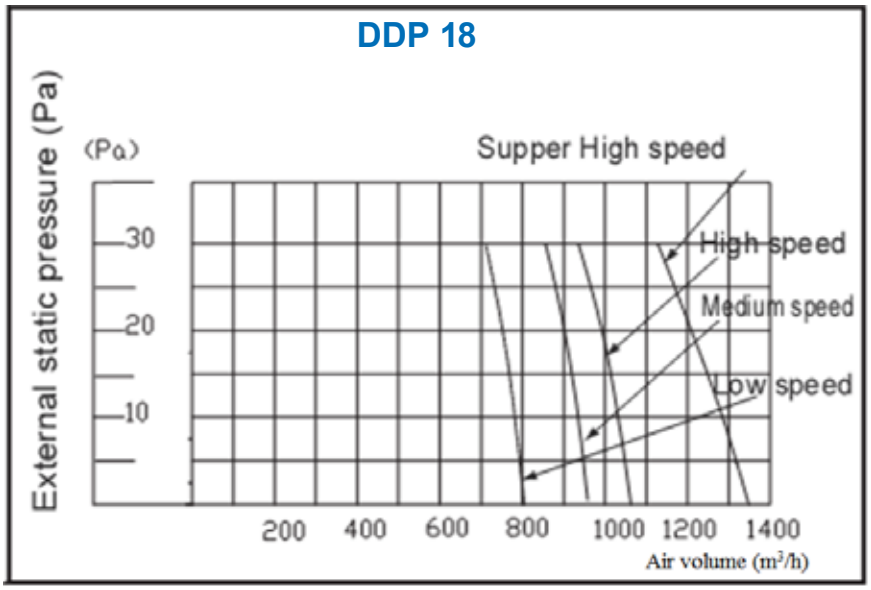
KJR-90H/BMWC-E Thermostat features microprocessor-based control. The LCD display modes include operation status (cooling and ventilation), fan speed, room temperature and set-point.

the Soft touch keys include on/off and mode, clock / timer on-off / sleeping mode, fan speed / fan mode and temperature adjustment.

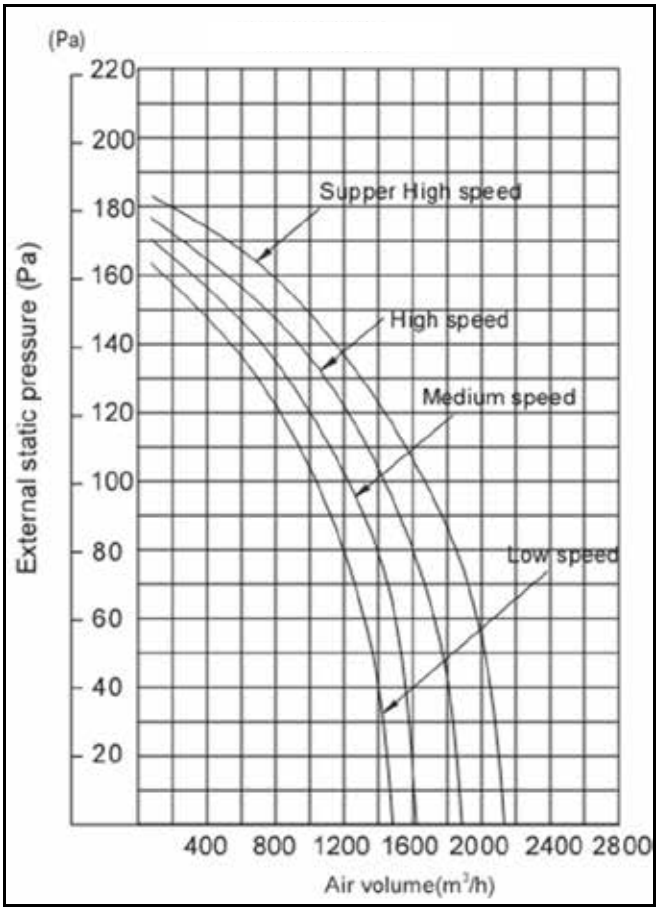
Air Flow Performance

Curve diagram of static pressure, air flow volume.

DDP 18

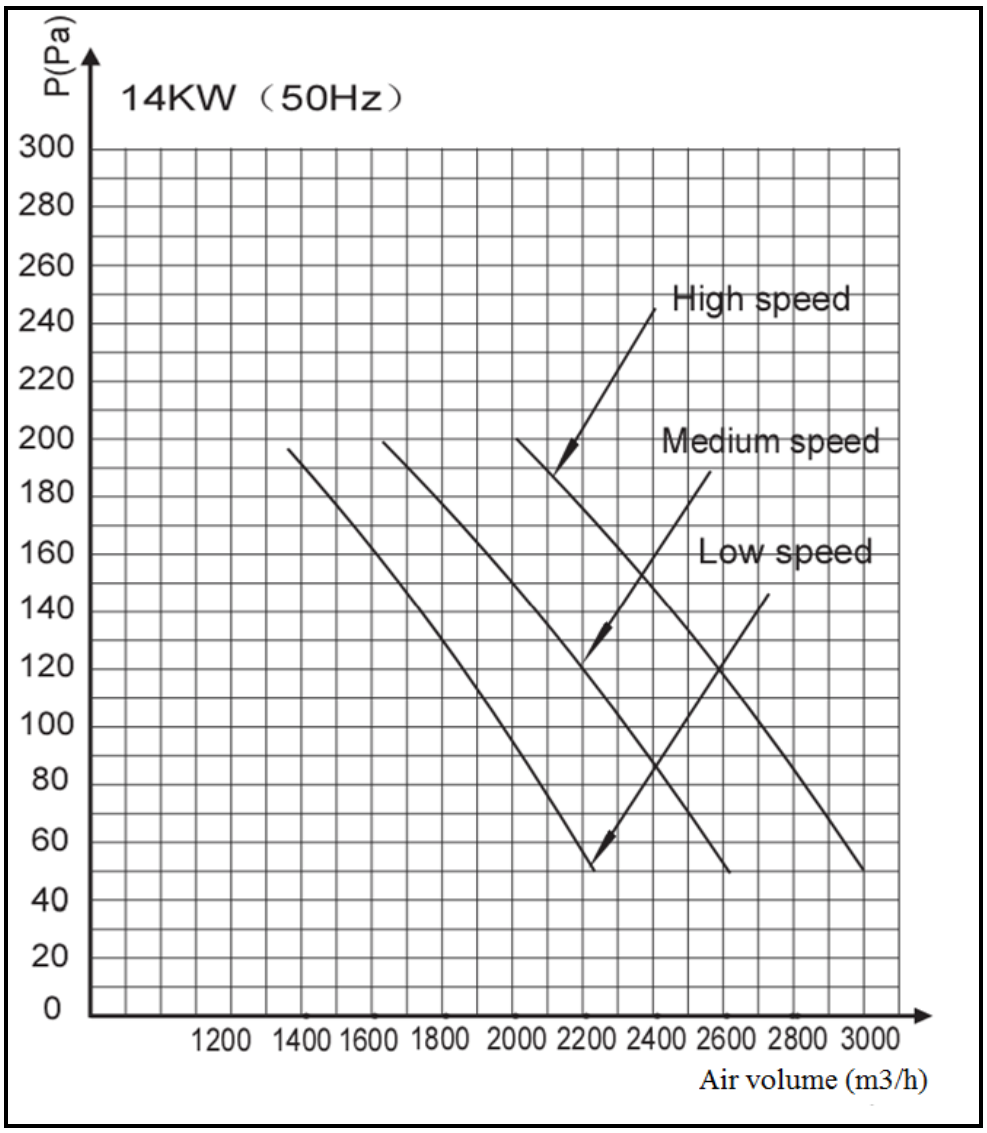


DDP 24, 36



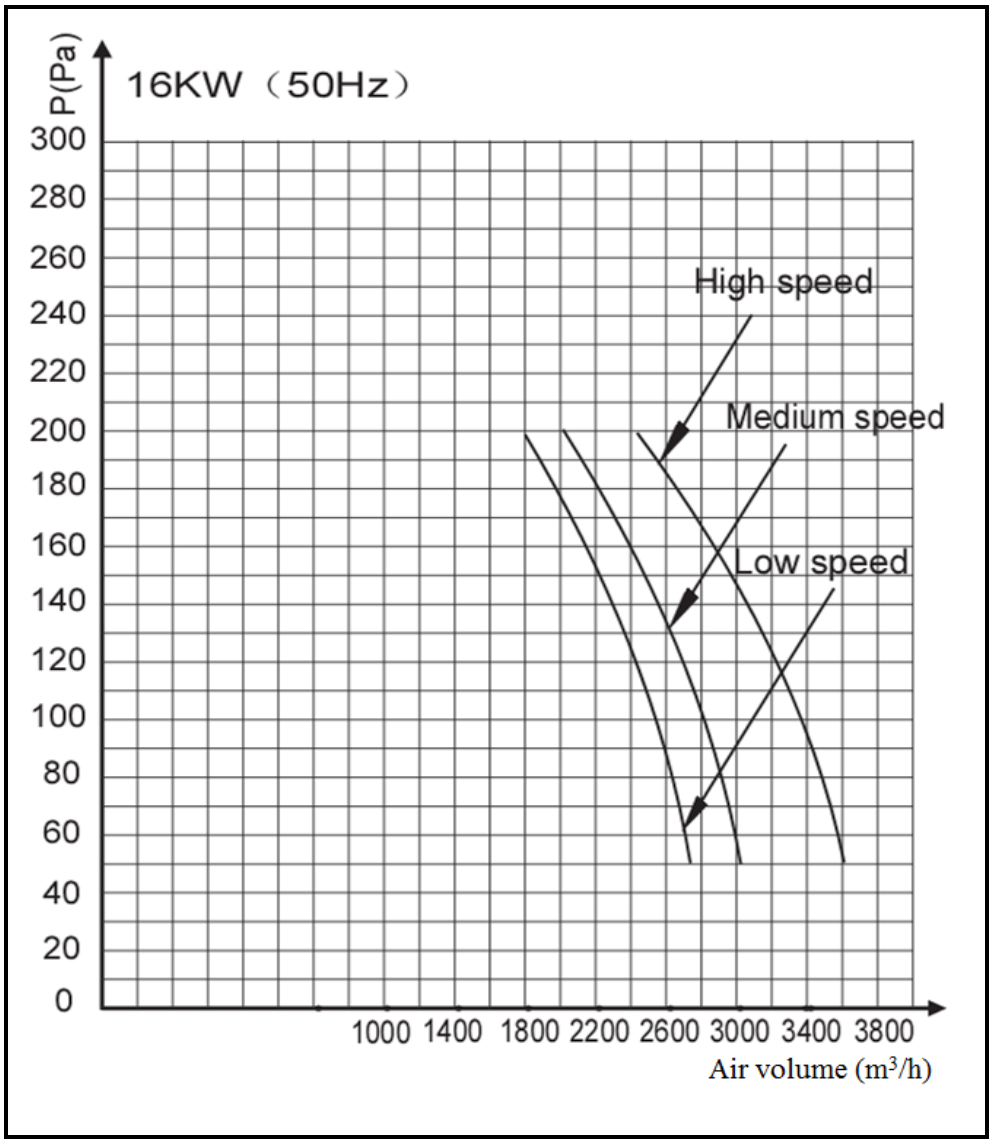
Air Flow Performance

DDP 48



Air Flow Performance

DDP 60



Piping Limitation & Recommended Sizing

Indoor unit	Outdoor unit	Max. Total Length (m)	Max. Vertical Length (m)
DDP 18	RX 18	55	46
DDP 24	RX 24	55	46
DDP 36	RX 36 - 1ph	55	46
	RX 36 - 3ph	55	46
DDP 48	RX 48	55	46
DDP 60	RX 60	55	46

Table 8

Notes :

1. Pipe diameters are based on equivalent length of copper tubing sizes.
2. Pipe sizes are based on 2ºF (1.1ºC) or less temperature losses for liquid and suction line in equivalent pipe length.
3. If the condensing unit is below the evaporating unit, the maximum lift should not exceed to 66 feet.
4. Do not exceed 120 feet piping length without checking with SKM.
5. These sizes are for guidance only. For detailed proper piping, refer to recognized piping references like ASHRAE Guide and Data Book.

The recommended or required suction and liquid line sizes do not necessarily correspond with the refrigerant connections available on the outdoor or indoor unit. Necessary transformation may be required and it's field performed.

Liquid Line Size

Model No.	Liquid /gas pipe (mm)	Liquid Line Size - Outdoor unit higher than indoor unit						
		Total Equivalent Length (m)						
		7.62	15.24	22.86	30.48	38.1	45.72	54.86
		Maximum Vertical Separation (m)						
18	Φ9.52/Φ15.9	7.62	15.24	22.86	18.9	18.59	17.98	17.37
24	Φ9.52/Φ15.9	7.62	15.24	18.9	18.59	18.29	17.68	17.06
36	Φ9.52/Φ15.9	7.62	15.24	17.98	17.37	16.76	16.15	15.54
48	Φ9.52/Φ22	7.62	15.24	15.85	14.63	13.11	11.58	9.75
60	Φ9.52/Φ22	7.62	15.24	14.33	12.5	10.36	8.53	6.7

Model No.	Liquid /gas pipe (mm)	Liquid Line Size - Outdoor unit lower than indoor unit					
		Total Equivalent Length (m)					
		7.62	15.24	22.86	30.48	38.1	45.72
		Maximum Vertical Separation (m)					
18	Φ9.52/Φ15.9	7.62	15.24	22.86	18.9	18.59	17.98
24	Φ9.52/Φ15.9	7.62	15.24	18.9	18.59	18.29	17.68
36	Φ9.52/Φ15.9	7.62	15.24	17.98	17.37	16.76	16.15
48	Φ9.52/Φ22	7.62	15.24	15.85	14.63	13.11	11.58
60	Φ9.52/Φ22	7.62	15.24	14.33	12.5	10.36	8.53

Sound Levels (Outdoor Unit RX)

Model	Sound pressure level
RX 18	58dB(A)
RX 24	62dB(A)
RX 36 - 1ph	64dB(A)
RX 36 - 3ph	64dB(A)
RX 48	68dB(A)
RX 60	68dB(A)

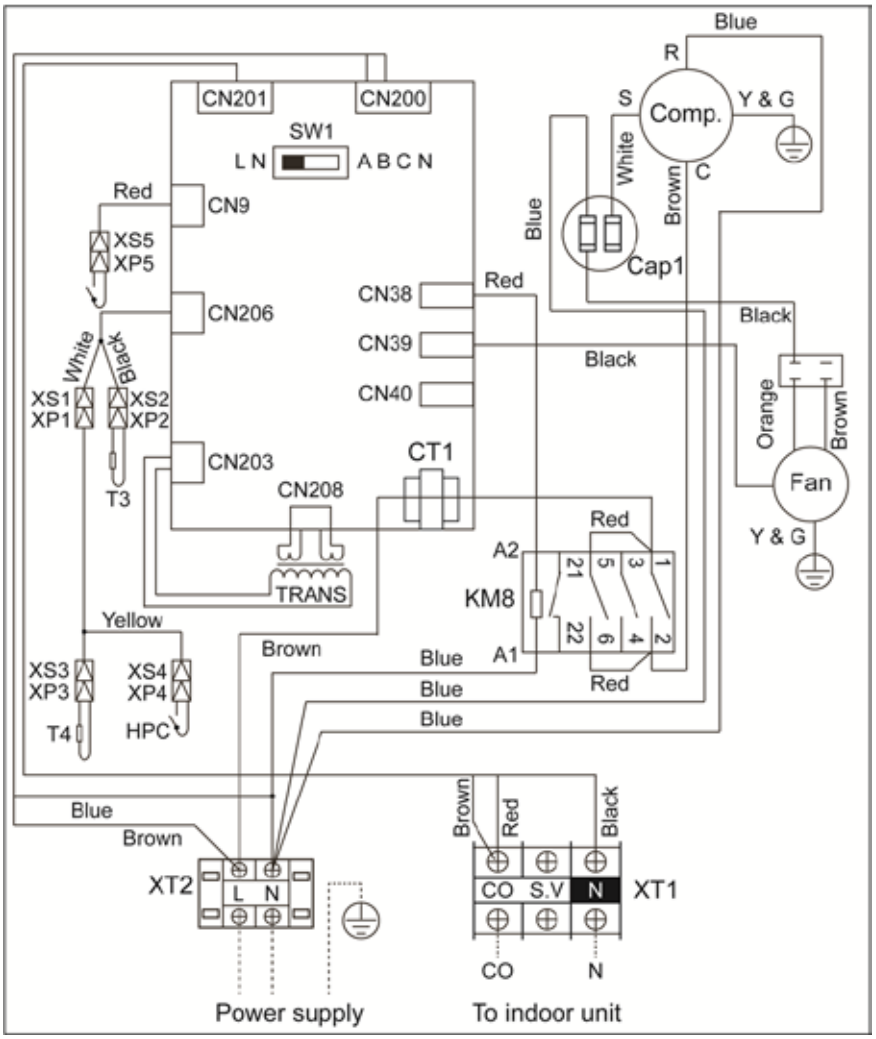
Sound Levels (Indoor Unit DDP)

Model	Sound pressure level		
	High	Medium	Low
DDP 18	42dB(A)	38dB(A)	37dB(A)
DDP 24	49dB(A)	46dB(A)	44dB(A)
DDP 36	51dB(A)	49dB(A)	46dB(A)
DDP 48	52dB(A)	51dB(A)	50dB(A)
DDP 60	54dB(A)	52dB(A)	51dB(A)

Typical Wiring Diagram

OUTDOOR UNIT RX

RX18



Code	Part name	Code	Part name
Cap1	Capacitor	Cap2	Capacitor
TRANS	Power transformer	Fan	Outdoor fan motor
T3	10kΩ resistance	T4	10kΩ resistance
XP1 - 4	Connectors	XS1 - 4	Connectors
CT2	Current detect	XT1	6-way terminal
XT2	2-way terminal	KM8	Contactor
HPC	High pressure cut-out control	LPC	Low pressure cut-out control

Factory setting: SW1 L N A B C N

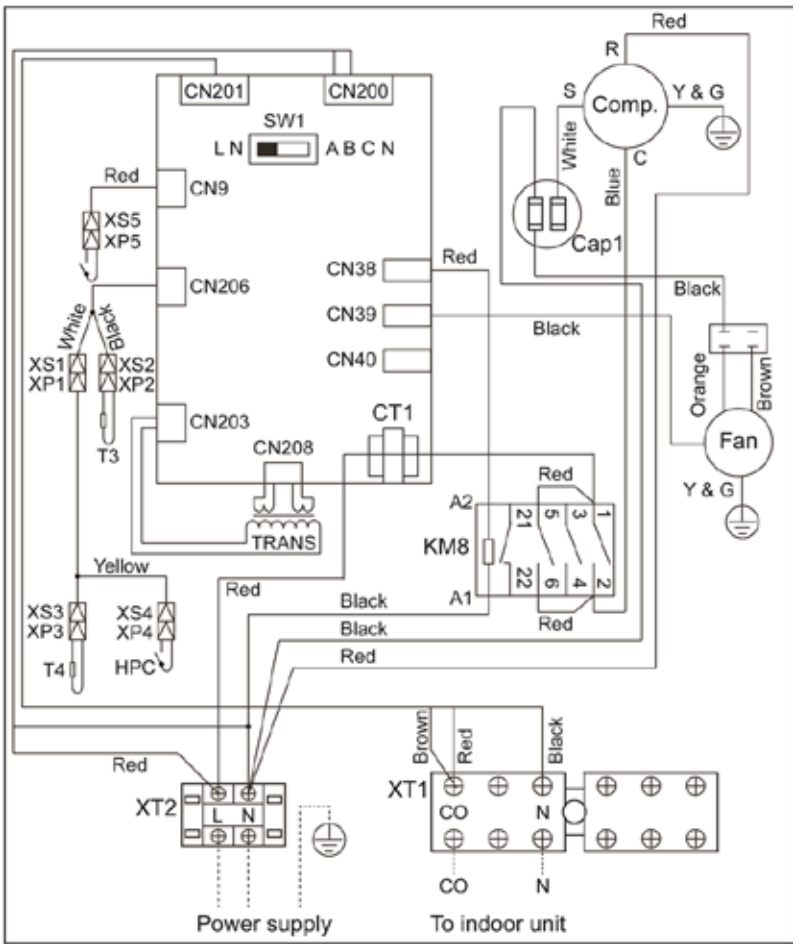
Factory wiring: ——————

Field wiring: ----------

Typical Wiring Diagram

OUTDOOR UNIT RX

RX24 & RX36 - 1Ph



Code	Part name	Code	Part name
Cap1	Capacitor	Cap2	Capacitor
TRANS	Power transformer	Fan	Outdoor fan motor
T3	10kΩ resistance	T4	10kΩ resistance
XP1 - 4	Connectors	XS1 - 4	Connectors
CT2	Current detect	XT1	6-way terminal
XT2	2-way terminal	KM8	Contactor
HPC	High pressure cut-out control	LPC	Low pressure cut-out control

Factory setting: SW1 L N A B C N

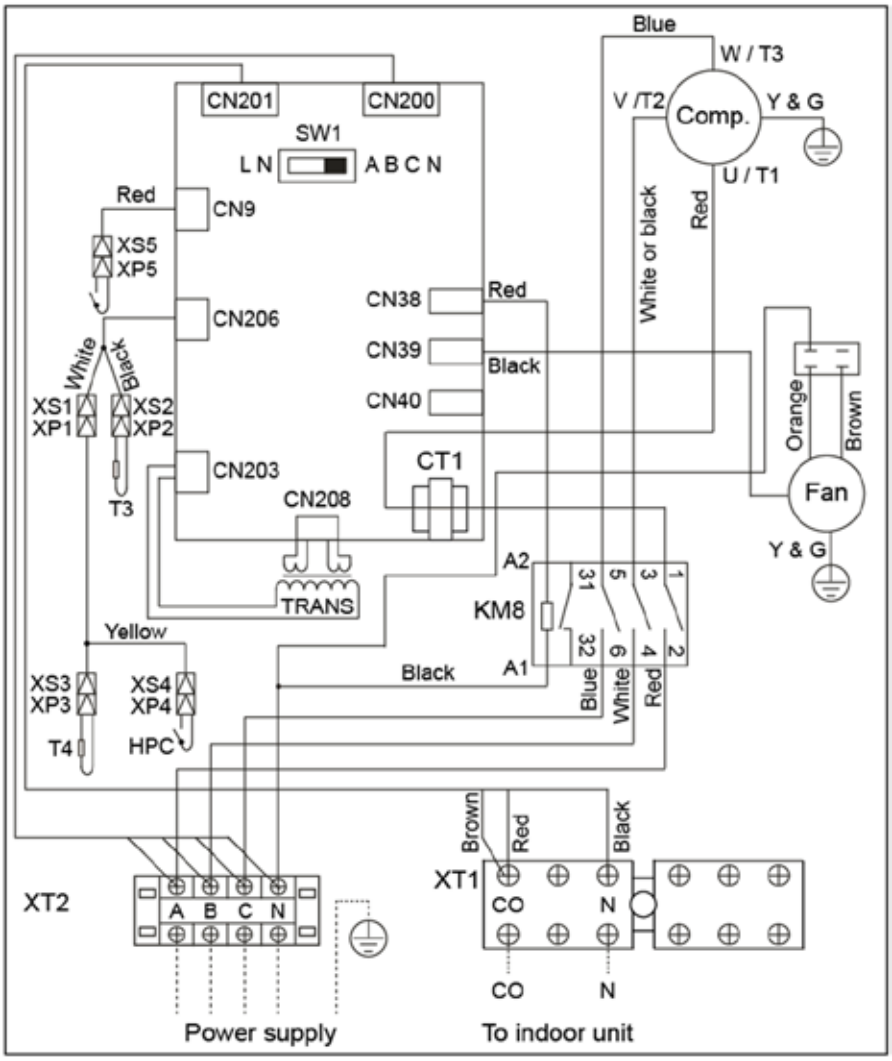
Factory wiring: ——————

Field wiring: ....

Typical Wiring Diagram

OUTDOOR UNIT RX

RX36-3Ph, RX48 & RX60



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HPC	High pressure cut-out control	LPC	Low pressure cut-out control

Factory setting: SW1 L N A B C N

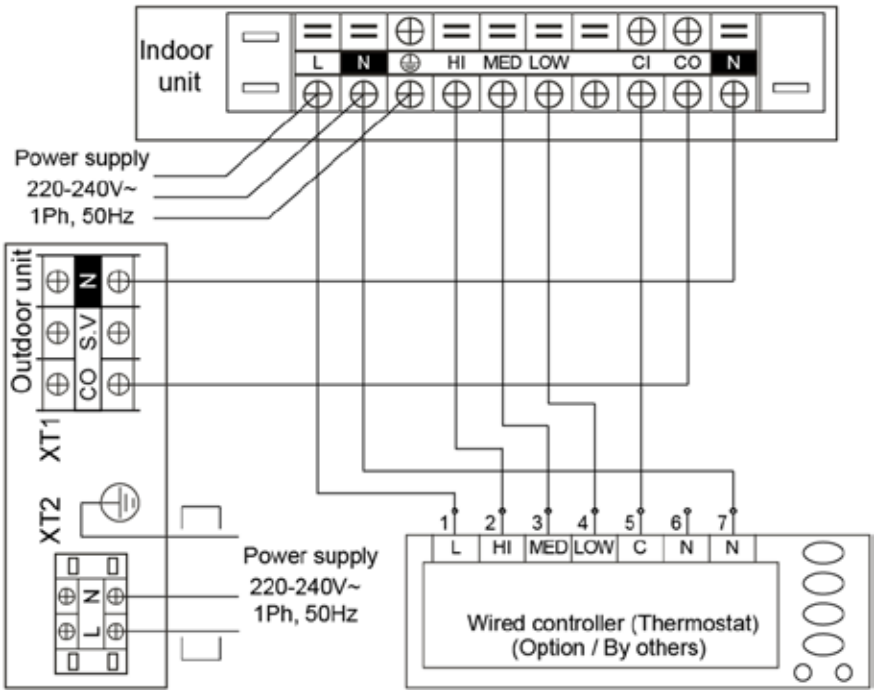
Factory wiring: ————

Field wiring: ·····

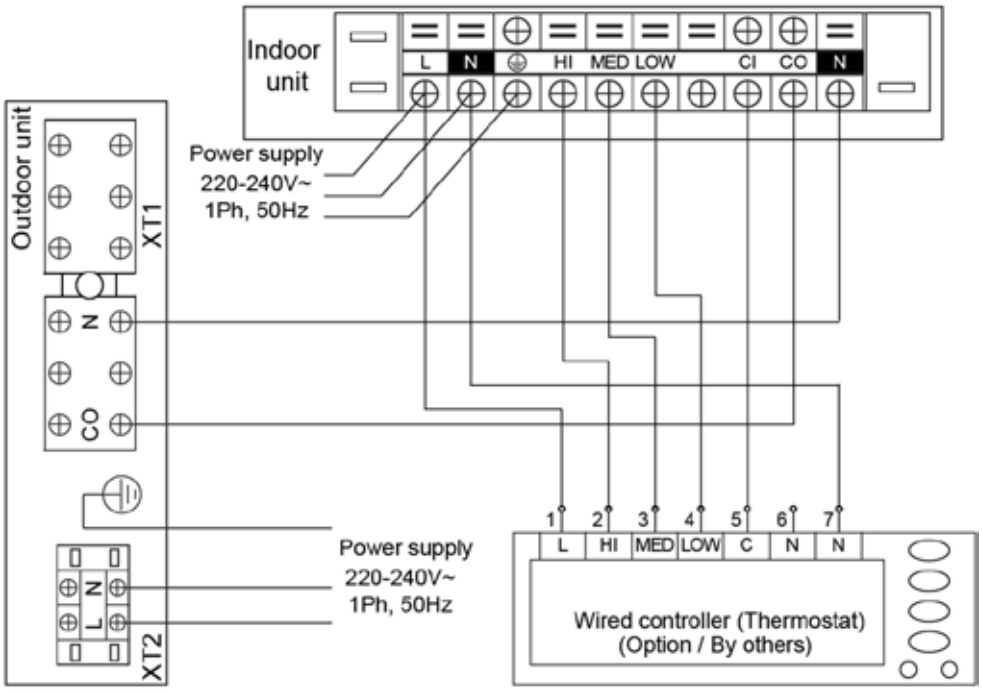
Typical Schematic Diagram

CONNECTION OF INDOOR UNIT & OUTDOOR UNIT

RX18 + DDP18



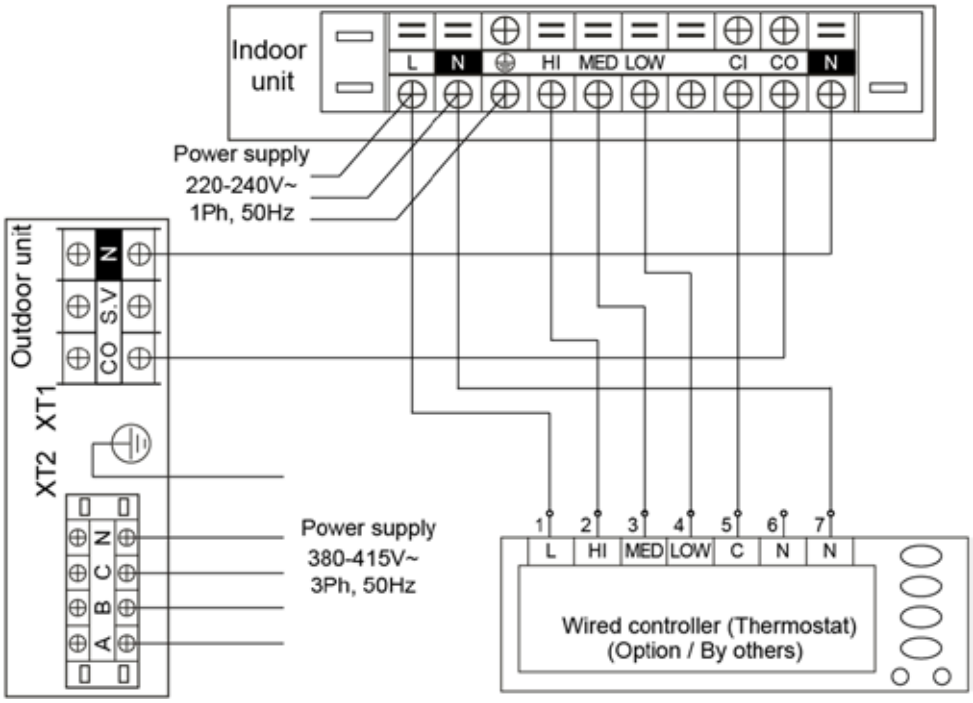
RX24 + DDP24 & RX36-1Ph + DDP36



Typical Schematic Diagram

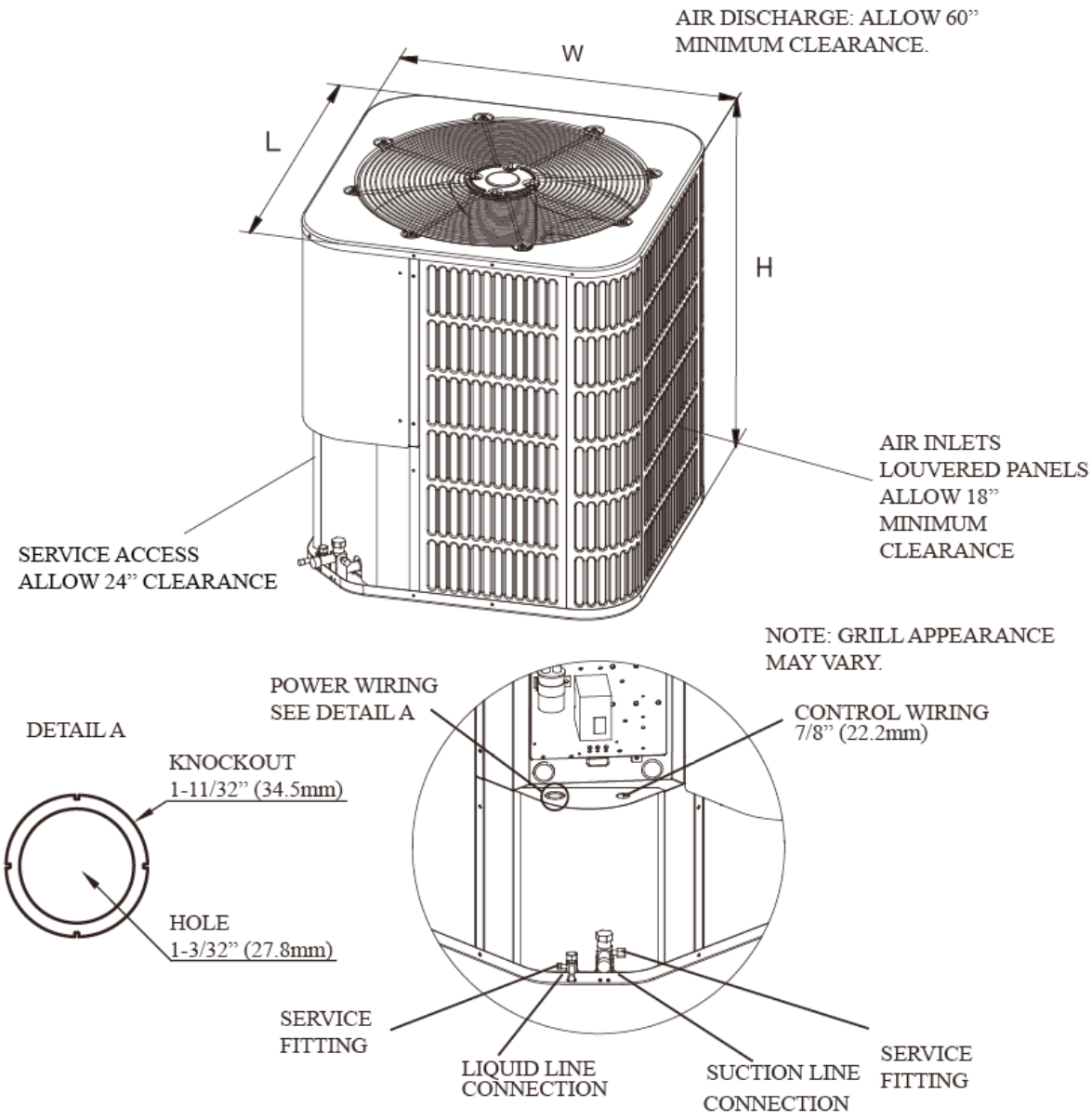
CONNECTION OF INDOOR UNIT & OUTDOOR UNIT

RX36 + DDP36-3Ph, RX48+ DDP48 & RX60+ DDP60



Dimensional Data

OUTDOOR UNIT RX



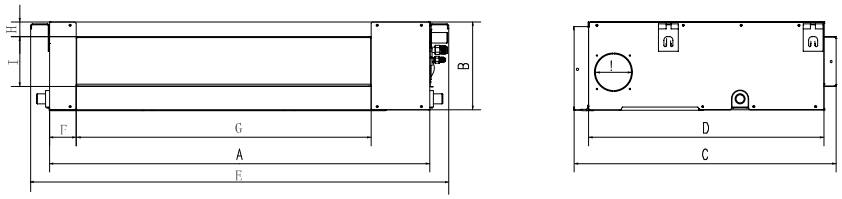
Model	Dimensions			Refrigerant connection valve size	
	H (mm)	W (mm)	L (mm)	Liquid (mm)	Gas (mm)
RX 18	633	554	554	Φ9.52	Φ19.1
RX 24	633	600	600	Φ9.52	Φ19.1
RX 36-1PH	759	710	710	Φ9.52	Φ19.1
RX 36-3PH	759	710	710	Φ9.52	Φ19.1
RX 48	843	710	710	Φ9.52	Φ22.2
RX 60	843	740	740	Φ9.52	Φ22.2

Dimensional Data

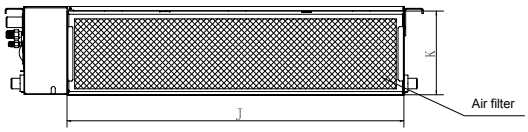
INDOOR UNIT - DDP 18K , 24K & 36K Models:

Outline dimension and air outlet opening size

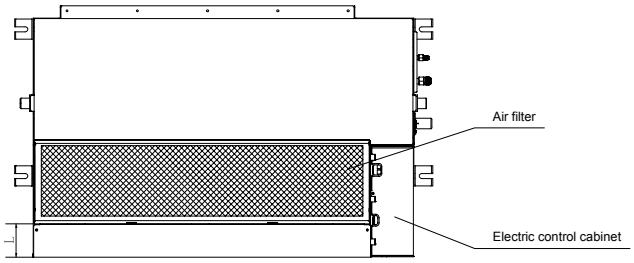
Unit: mm



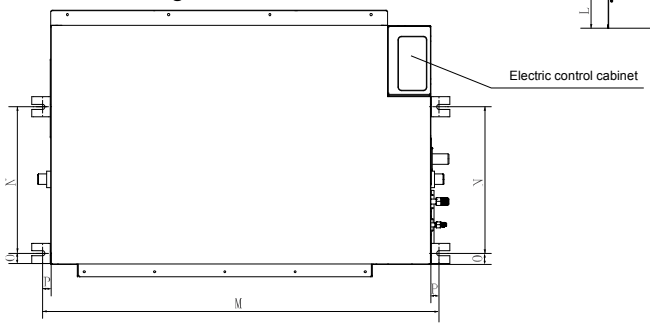
Air return opening size



Position size of descensional ventilation opening



Size of mounted lug

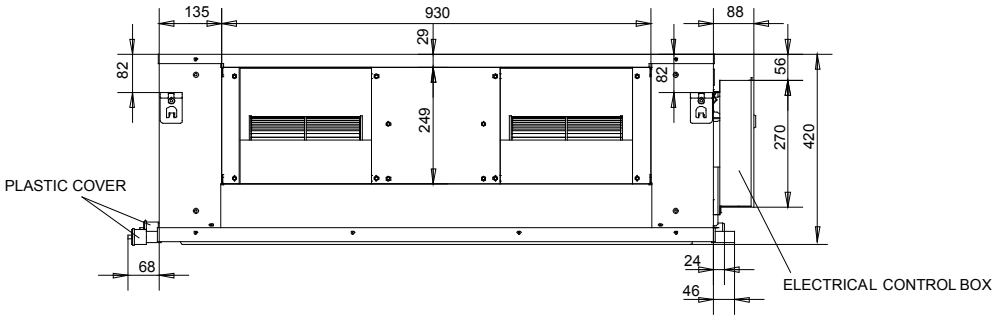


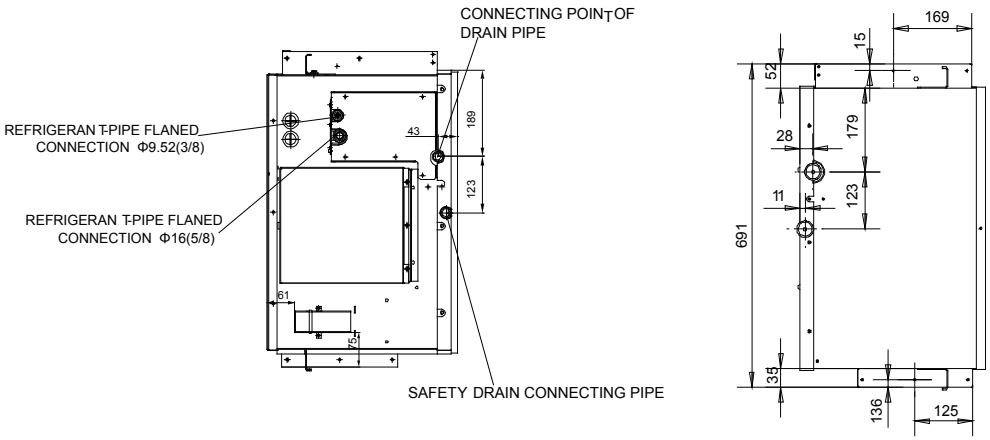
	Outline dimension					Air outlet opening size			
	A	B	C	D	E	F	G	H	I
DDP 18	1140	210	500	450	1220	45	950	17	145
DDP 24	1140	270	775	710	1230	65	933	35	179
DDP 36	1140	270	775	710	1230	65	933	35	179

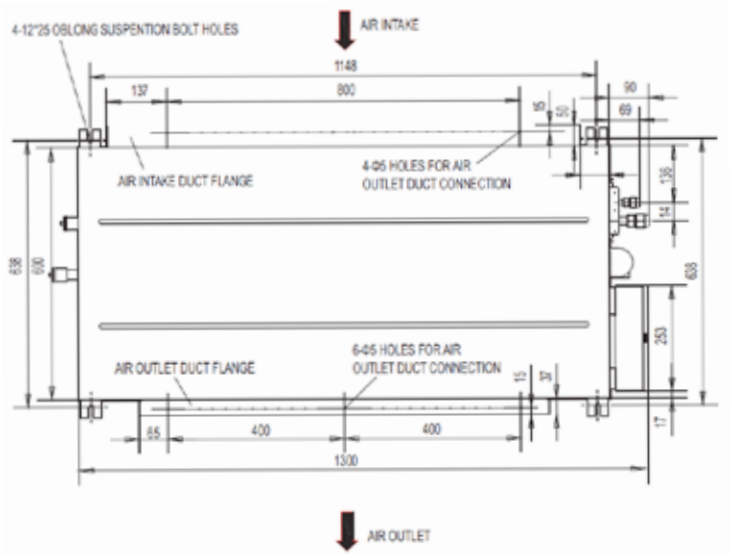
	Air return opening size				Size of mounted lug				Fresh air inlet
	J	K	L	Filter thickness	M	N	O	P	T
DDP 18	1040	200	-	10	1180	350	50	20	Φ92
DDP 24	1035	260	20	10	1180	490	26	20	Φ125
DDP 36	1035	260	20	10	1180	490	26	20	Φ125

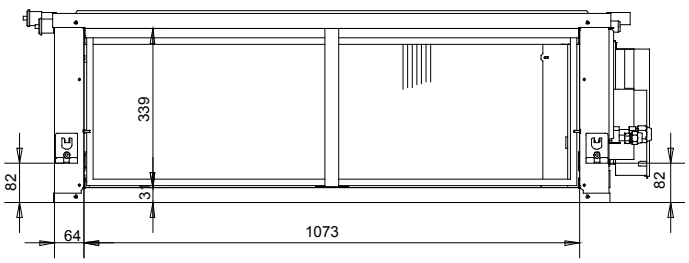
Dimensional Data

INDOOR UNIT - DDP 48K & 60K Models:









اجهـــزة تـكـيـيـف هـــواء
AIR CONDITIONING EQUIPMENT

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