



xpression
hi-wall

XPOWER
INVERTER



Turn to the Experts

eXtreme performance is our cool solution.

Innovation moves the world.

As technological advancement shapes the ever-changing world we live in, our personal standards likewise evolve. Today, we look for products that surpass our expectations. We seek products that go well beyond basic performance. We want products that exceed the highest standards of today's modern world.

Carrier's *xpression* - XPower Inverter answers that desire for supreme quality on all levels. By maintaining maximum comfort with minimal energy expenditure, *xpression* looks after your needs as well as the planet's natural resources.

Providing unmatched quality that exceeds performance expectation --- that's the trademark of Carrier innovation.

Merging elegance with substance.

A home system designed for you modern lifestyle.



53ND026 & 53ND035

Available in white facia as standard. Satin silver available at extra cost for PQV030X, 040X, 050X, 080X, 53P050X and P060X

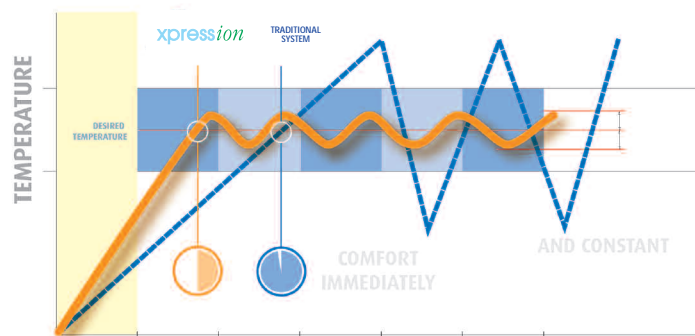
The grille is a flat panel that blends in seamlessly with your furnishings. The *xpression* grille is available in two modern colours, which coupled with it's graceful lines will compliment your decor.

The well designed remote control is so easy-to-use. It includes the daily timer, sleep timer, and ioniser functions. The remote control also includes address selector - if you have two indoor units in the same room, you have the option to link both units to a single remote control.

Attain the ideal microclimate instantly.

The *xpression* boasts cutting edge climate control innovation. Through breakthrough inverter technology, optimum comfort levels are achieved in a fraction of the time of conventional systems. *xpression* is a multi-function air conditioner that provides the right temperature and humidity levels all year round.

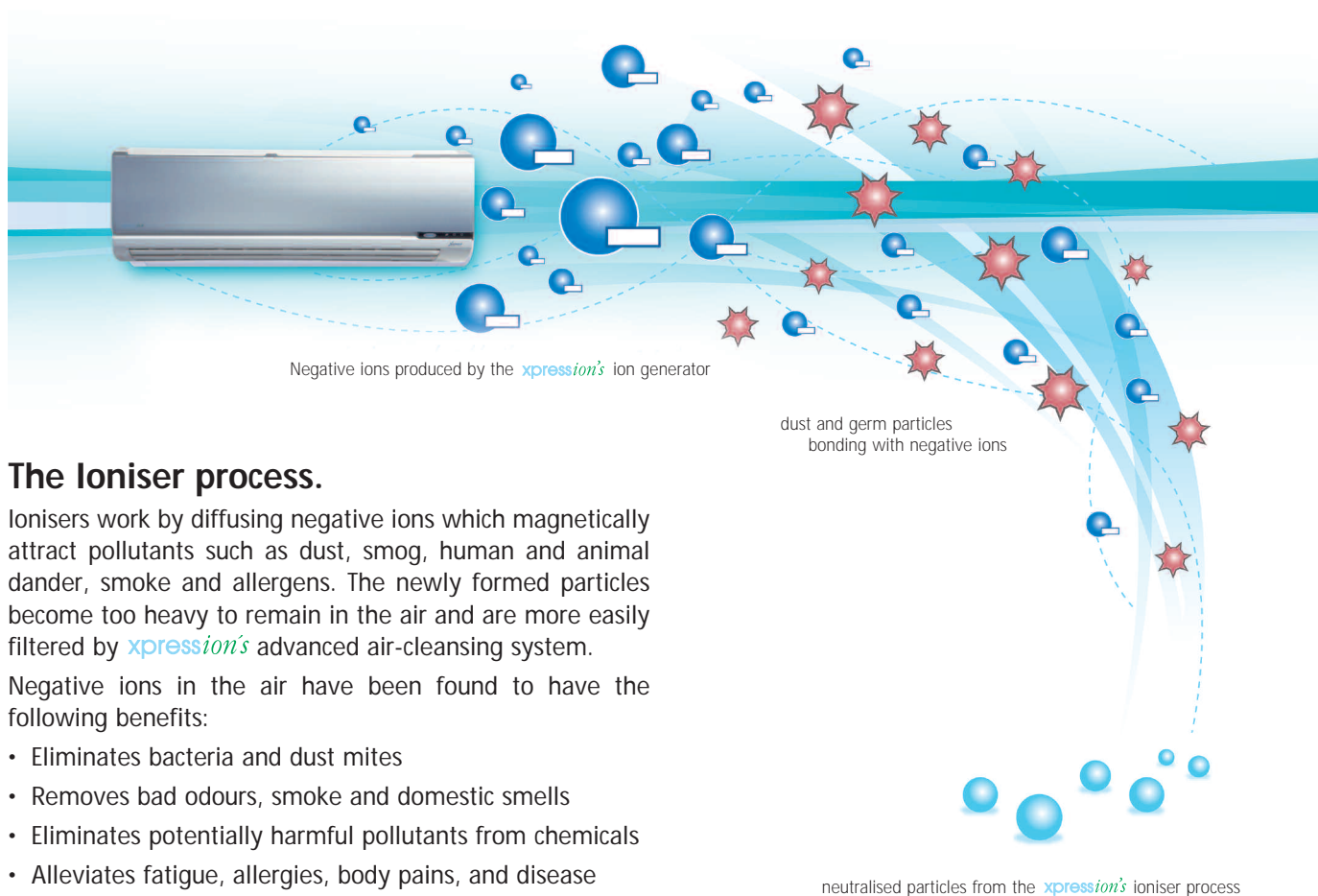
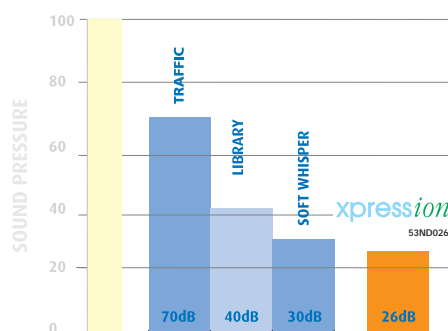
xpression works by adjusting the compressor speed according to the required temperature levels. When the outside temperature is high, the compressor speeds up until the desired comfort level is achieved. Afterwards, the compressor modulates its performance, whether increasing or decreasing speed, according to the required comfort level.



Turn up the silence.

Total relaxation is achieved with Carrier *xpression's* quiet solution: a barely audible air conditioning system. Carrier DC Plus Technology is even quieter because it is fitted with a DC Rotary compressor, which drives two rotary cylinders. This ensures total suppression of vibration, drastically reducing noise levels.

When Carrier *xpression* reaches the desired temperature, the indoor fan slows down to minimum speed, producing only 26dB of noise, that's even softer than a whisper!



The Ioniser process.

Ionisers work by diffusing negative ions which magnetically attract pollutants such as dust, smog, human and animal dander, smoke and allergens. The newly formed particles become too heavy to remain in the air and are more easily filtered by *xpression's* advanced air-cleansing system.

Negative ions in the air have been found to have the following benefits:

- Eliminates bacteria and dust mites
- Removes bad odours, smoke and domestic smells
- Eliminates potentially harmful pollutants from chemicals
- Alleviates fatigue, allergies, body pains, and disease
- Increases feeling of calmness, less irritability and less depression
- Improves energy.

Puron®

xpression

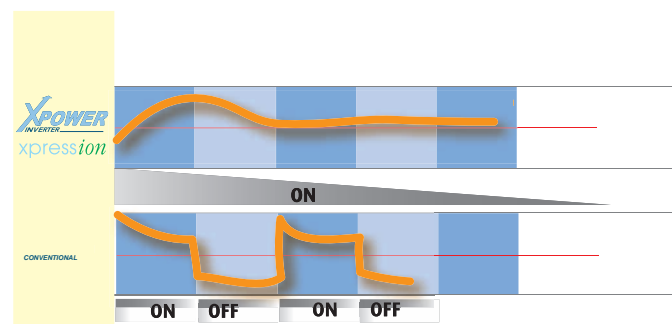
eXperience ultimate comfort.



Waste less, save more!

Thanks to the ultimate electronic inverter technology, the *xpression* is specifically designed to reduce operating costs. This is because the system is able to auto-regulate its power input for minimum energy consumption while still providing optimum comfort levels.

xpression intelligently adjusts itself according to how much cooling (or heating) is needed. By precisely matching its output to your desired comfort level, *xpression* ensures that only the requisite amount of energy is consumed.



Carrier XPower Inverter *xpression* is not merely a highly advanced marvel on the inside, on the outside, it is a visual indulgence. With stylish and sleek lines that manifest flair, *xpression* indoor units and remote controls are ideal fixtures that complement any home's interior. A stylish alternative, both inside and out. *xpression* was created using sophisticated design technology resulting in one of the most compact indoor units on the inverter market.

Ecological

Respect for ozone layer: In fact Puron has an O.D.P. (Ozone Depletion Potential) of zero.

Safe: It is non-toxic, non-inflammable, reliable and efficient.

Performance

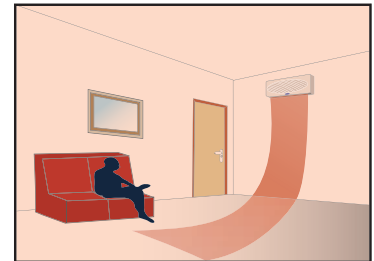
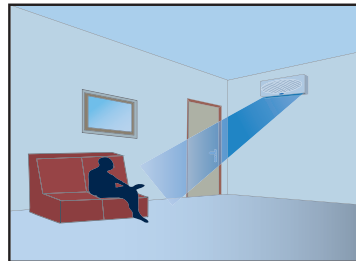
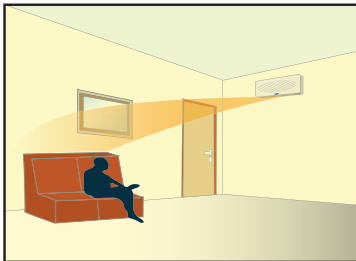
Best for the purpose and more efficient, Carrier XPower Systems are equipped with the **most advanced technology**. Not all gases are the same. Carrier has chosen the best. **Puron®**, the refrigerant of the future.

Efficient

Puron® is top for performance:

+12% increase in efficiency (EER) compared with R-407C.

+16% increase in efficiency compared with freon (R-22).

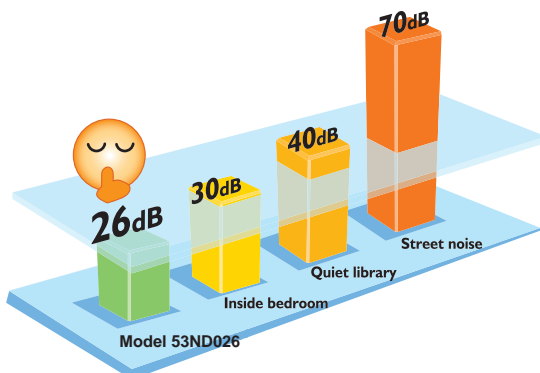


Advanced Air Flow

The horizontal louvres provide wider airflow, so you'll have even more comfort throughout your home. The Carrier Remote gives you six steps of control over your airflow. It includes an auto swing mode, which sets the airflow to the optimum position for heating or cooling. The new larger 53P350-53P450 models also include auto swing for the horizontal louvres, giving you maximum flexibility in air flow direction, whatever the room shape.



+ 53ND026 and 53ND035 models only



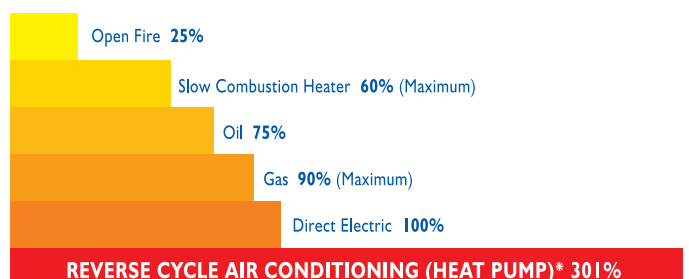
Quiet Operation

Newly designed, sound minimised air management system provides virtually noise free operation. The indoor unit, has a cross flow fan and air discharge for whisper quiet operation.

Energy Efficient and Superior Design

Utilising advanced technology and superior design Carrier Hi-Wall units give you the benefit of lower operating cost with higher energy efficiency. The Earth Exchange reports indicate that Carrier Reverse Cycle type Air Conditioners provide up to three times the heating efficiency in your home than traditional electric radiators.

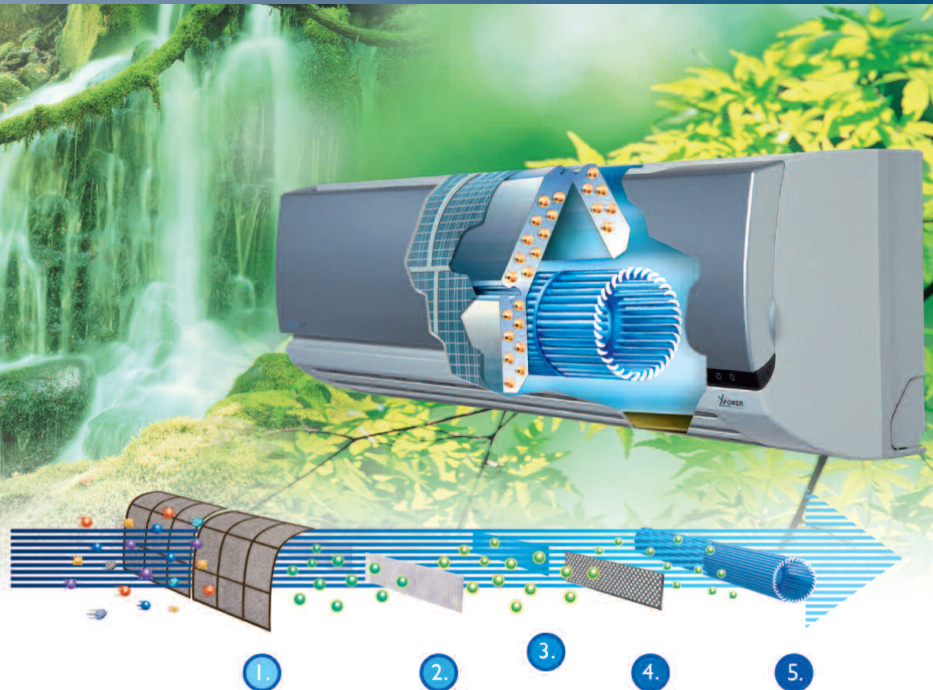
Heating System & Efficiency



*Heat Pump heating output is reduced below 5°C outdoor ambient.

Source: The Earth Exchange.

XPower & Fixed Speed Filtration.



Breathe Freely

xpression's Five Step Filter System is designed to give you cleaner, fresher and healthier air.

- Filter 1 The first level filter removes the larger particles from the air, such as dust and lint.
- Filter 2 The electrostatic filter eliminates smaller particles such as spore, bacteria and microscopic dust.
- Filter 3 Carrier's advanced Photocatalytic filter, combining zeolite and titanium dioxide, captures most of any remaining pollutants.
- Filter 4 The activated carbon filter removes unpleasant odours to achieve a perfectly pleasant environment.
- Filter 5 An Anti-fungal fan that restrains the propagation of bacteria and fungus.

This series of filters improves the indoor air quality, removing polluting particles as small as 0.0001 micrometer.

Built to last

xpression's and XPower units now incorporate Bluefin* technology. The indoor and outdoor coil fins are coated with Bluefin to prolong their useful life and to help protect the coils against premature corrosion.

Warranty



When you purchase Carrier residential products you have the satisfaction of knowing you've purchased a premium quality product. All Carrier residential systems carry a comprehensive 5 year parts and labour warranty.

* Not applicable to 38ND026, 38ND035, 38VYX050 and 38VYX080 outdoor units.

xpression XPower Inverter (Puron R-410A) - Reverse Cycle

Model Number - System		PQV030X	PQV040X	PQV050X	PQV080X
Indoor		42PQV030X	42PQV040X	42PQV050X	42PQV080X
Outdoor		38VYX030X	38VYX040X	38VYX050X	38VYX080X
Capacity Cooling - Rated (Range)	kW	2.56 (1.40-3.30)	3.42 (1.80-4.00)	4.80 (1.70-5.20)	6.50 (2.00-7.00)
Capacity Heating - Rated (Range)	kW	3.15 (1.50-4.00)	3.90 (1.90-5.10)	5.30 (1.50-6.00)	7.60 (1.70-8.00)
Cooling Efficiency - EER - Rated (Range)		3.20 (3.33-2.32)	3.00 (3.33-2.19)	2.70 (4.59-2.67)	2.61 (4.00-2.59)
Heating Efficiency - COP - Rated (Range)		3.42 (3.80-2.58)	3.20 (3.73-2.43)	2.95 (3.95-2.40)	2.76 (4.40-2.74)
Compressor type		Rotary	Rotary	Rotary	Rotary
Moisture Removal	L/hr	1.10	1.30	2.20	2.80
Indoor Airflow - H / M / L	L/s	155 / 135 / 114	161 / 141 / 124	223 / 185 / 149	262 / 225 / 188
Sound Pressure (Indoor) - H / M / L	dB	41 / 38 / 35	41 / 39 / 36	42 / 38 / 33	46 / 42 / 38
Sound Power SWL Outdoor	dB	61	61	64	65
Power Supply	Volts	240	240	240	240
Current Draw Cooling - Rated (Range)	Amps	3.50 (2.00-6.00)	4.90 (2.60-7.80)	8.20 (1.71-10.22)	11.30 (2.31-13.00)
Current Draw Heating - Rated (Range)	Amps	4.00 (1.90-6.60)	5.30 (2.50-8.90)	7.60 (1.32-10.35)	12.30 (1.76-14.43)
Power Input Cooling - Rated (Range)	kW	0.80 (0.42-1.42)	1.14 (0.54-1.83)	1.78 (0.37-1.95)	2.49 (0.50-2.70)
Power Input Heating - Rated (Range)	kW	0.92 (0.39-1.55)	1.22 (0.51-2.10)	1.78 (0.38-2.50)	2.75 (0.38-2.92)
Dimension (Indoor) - H x W x D	mm	260 x 790 x 185	260 x 790 x 185	285 x 1080 x 185	285 x 1080 x 185
Dimension (Outdoor) - H x W x D	mm	590 x 750 x 280	590 x 750 x 280	595 x 780 x 270	795 x 900 x 320
Net Weight - Indoor/Outdoor	kg	8.50 / 33	8.50 / 37	14 / 40	14 / 61
Pipe Liquid Side	mm / (inch)	6.35 / (1/4")	6.35 / (1/4")	6.35 / (1/4")	9.52 / (3/8")
Pipe Gas Side	mm / (inch)	9.52 / (3/8")	12.70 / (1/2")	12.70 / (1/2")	15.88 / (5/8")
Pipe Drain	Inside Dia. mm	16	16	16	16
Max. Piping Length	m	10	15	30	50
Chargeless Length	m	10	15	20	20
Max. Piping Height	m	8	10	30	30
Operating Range	Cooling, °C	15 ~ 43	15 ~ 43	15 ~ 43	15 ~ 43
- Outdoor Temperature	Heating, °C	-10 ~ 24	-10 ~ 24	-15 ~ 20	-15 ~ 20

xpression Fixed Speed (R-22) - Reverse Cycle

Model Number - System		53ND026H	53ND035H	53P050HX	53P060HX	53P350HX	53P400HX	53P450HX
Indoor		42ND026H	42ND035H	42P050HX	42P060HX	42P350HX	42P400HX	42P450HX
Outdoor		38ND026H	38ND035H	38P050HX	38P060HX	38P350HX	38P400HX	38P450HX
Cooling Capacity - Rated	kW	2.75	4.00	5.00	6.00	7.80	8.40	9.80
COP		3.09	3.15	2.89	2.84	2.50	2.65	2.45
Heating Capacity - Rated	kW	3.00	4.10	5.42	6.20	8.20	9.00	10.40
COP		3.37	3.28	3.25	2.97	2.90	2.90	2.75
Compressor type		Rotary	Rotary	Rotary	Rotary	Rotary	Rotary	Reciprocating
Moisture Removal	L/hr	1.20	2.00	2.20	2.80	3.20	3.40	4.10
Power Supply	Volts-Phase-Hz	240	240	240	240	240	240	240
Power input	(Cooling) kW	0.89	1.27	1.73	2.11	3.12	3.17	4.00
	(Heating) kW	0.89	1.25	1.67	2.09	2.83	3.10	3.78
Operating current	(Cooling) A	4.02	5.45	7.50	8.80	13.00	13.21	16.67
	(Heating) A	4.06	5.45	7.20	8.60	11.80	12.93	15.76
Starting Current	(Cooling) A	18	25	39.32	40.87	35.00	35.00	35.00
	(Heating) A	18	24	39.32	40.87	35.00	35.00	35.00
Indoor Unit								
Dimension - H x W x D	mm	275 x 790 x 208	275 x 790 x 208	295 x 1080 x 200	295 x 1080 x 200	340 x 1460 x 240	340 x 1460 x 240	340 x 1460 x 240
Net Weight	kg	10	10	14	14	23	23	23
Airflow Volume - H / M / L	L/s	169 / 128 / 94	181 / 144 / 119	271 / 247 / 223	271 / 247 / 223	345 / 297 / 250	345 / 297 / 250	392 / 345 / 297
Operating Noise (Sound Pressure) at 1m distance - H / M / L	dBA	39 / 33 / 26	41 / 35 / 31	48 / 46 / 44	48 / 46 / 44	49 / 46 / 43	49 / 46 / 43	51 / 49 / 46
Outdoor Unit								
Dimension - H x W x D	mm	550 x 780 x 290	550 x 780 x 290	590 x 800 x 300	590 x 800 x 300	800 x 800 x 300	800 x 1065 x 300	800 x 1065 x 300
Net Weight	kg	33	38	47	52	67	81	85
Operating Noise (Sound Pressure) at 1m distance (High) dBA		50	51	56	59	57	56	59
Operating Noise (Sound Power) (High) dBA		63	64	67	70	68	67	70
Pipe Size								
Liquid Side	mm / (inch)	6.35 / (1/4")	6.35 / (1/4")	6.35 / (1/4")	6.35 / (1/4")	6.35 / (1/4")	6.35 / (1/4")	9.52 / (3/8")
Gas Side	mm / (inch)	9.52 / (3/8")	12.70 / (1/2")	12.70 / (1/2")	15.88 / (5/8")	15.88 / (5/8")	15.88 / (5/8")	19.05 / (3/4")
Coupler Style		Flare	Flare	Flare	Flare	Flare	Flare	Flare
Drain	Inside Dia. mm	16.30	16.30	16.30	16.30	19.00	19.00	19.00
Max. Piping Length	m	10	15	20	20	40	40	40
Chargeless Length	m	10	15	15	15	15	15	15
Max. Piping Height	m	5	6	10	10	20	20	20
Operating Range	Cooling, °C	15 ~ 43	15 ~ 43	15 ~ 43	15 ~ 43	15 ~ 43	15 ~ 43	15 ~ 43
- Outdoor Temperature	Heating, °C	-10 ~ 24	-10 ~ 24	-5 ~ 24	-5 ~ 24	-5 ~ 24	-5 ~ 24	-5 ~ 24

xpression Fixed Speed (R-22) - Cooling Only

Model Number - System		53ND026C	53ND035C	53P050CX	53P060CX	53P350CX	53P400CX	53P450CX
Indoor		42ND026C	42ND035C	42P050CX	42P060CX	42P350CX	42P400CX	42P450CX
Outdoor		38ND026C	38ND035C	38P050CX	38P060CX	38P350CX	38P400CX	38P450CX
Cooling Capacity - Rated	kW	2.70	4.00	5.13	6.15	8.00	8.60	10.40
COP		3.14	3.15	2.91	2.87	2.60	2.65	2.60
Compressor type		Rotary	Rotary	Rotary	Rotary	Rotary	Rotary	Reciprocating
Moisture Removal	L/hr	1.20	2.00	2.2	2.8	3.20	3.40	4.10
Power Supply	Volts	240	240	240	240	240	240	240
Rated Power input	kW	0.86	1.27	1.76	2.14	3.08	3.25	4.00
Draw current	A	3.74	5.35	7.50	9.00	12.80	13.52	16.67
Starting Current	A	16.00	24.00	39.32	40.87	35.00	35.00	35.00
Indoor Unit								
Dimension - H x W x D	mm	275 x 790 x 208	275 x 790 x 208	295 x 1080 x 200	295 x 1080 x 200	340 x 1460 x 240	340 x 1460 x 240	340 x 1460 x 240
Net Weight	kg	10	10	14	14	23	23	23
Airflow Volume - H / M / L	L/s	169 / 128 / 94	181 / 161 / 133	266 / 252 / 233	266 / 252 / 233	345 / 297 / 250	345 / 297 / 250	392 / 345 / 297
Operating Noise (Sound Pressure) at 1m distance - H / M / L	dBA	39 / 33 / 26	41 / 35 / 31	48 / 46 / 44	48 / 46 / 44	49 / 46 / 43	49 / 46 / 43	51 / 49 / 46
Outdoor Unit								
Dimension - H x W x D	mm	550 x 780 x 290	550 x 780 x 290	590 x 800 x 300	590 x 800 x 300	800 x 800 x 300	800 x 800 x 300	1065 X 800 x 300
Net Weight	kg	30	37	41	46	65	69	81
Operating Noise (Sound Pressure) at 1m distance	(High) dBA	47	51	56	59	57	57	59
Operating Noise (Sound Power)	(High) dBA	60	64	67	70	68	68	70
Pipe Size								
Liquid Side	mm / (inch)	6.35 / (1/4")	6.35 / (1/4")	6.35 / (1/4")	6.35 / (1/4")	6.35 / (1/4")	6.35 / (1/4")	6.35 / (1/4")
Gas Side	mm / (inch)	9.52 / (3/8")	12.70 / (1/2")	12.70 / (1/2")	15.88 / (5/8")	15.88 / (5/8")	15.88 / (5/8")	19.05 / (3/4")
Coupler Style		Flare	Flare	Flare	Flare	Flare	Flare	Flare
Drain	Inside Dia.mm	16.30	16.30	16.00	16.00	19.00	19.00	19.00
Max. Piping Length	m	10	15	20	20	40	40	40
Chargeless Length	m	10	15	15	15	15	15	15
Max. Piping Height	m	5	6	10	10	20	20	20
Operating Range - Outdoor Temperature	Cooling , °C	15 ~ 43	15 ~ 43	15 ~ 43	15 ~ 43	10 ~ 43	10 ~ 43	10 ~ 43



Turn to the Experts

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