




turn to the expertsSM 



XPOWER
INVERTER



DC INVERTER LIGHT COMMERCIAL SERIES

DC Inverter Technology

More Economical

Energy Efficient

Once indoor air temperatures reach your desired levels, inverter driven air-conditioners automatically adjust their compressors to lower speeds, while maintaining set temperatures. This saves up to 40% electricity costs compared to conventional fixed speed air-conditioners.



More Powerful

Rapid Cooling & Heating

Carrier inverters can automatically maximise compressor speeds, resulting in higher capacities and powerful performance. This enables the user to attain the desired room temperature much faster than using conventional fixed speed air-conditioners.



More Comfortable

Precise Control, Constant Temperatures

After rapidly attaining set temperatures, Carrier inverter air-conditioners delicately adjust input currents and output capacities, maintaining a stable temperature with minimal fluctuation. This provides a pleasant, comfortable indoor environment. The fine adjustment of compressor speeds further enhances energy efficiency.



More Reliable

Wide Operating Envelopes

Using variable speed compressors, Carrier inverter air-conditioners are able to start up at much lower voltages and handle power fluctuations and surges better than conventional fixed speed units. These characteristics help promote the increased life span of units.



Compact & Four-way Cassette Units



Auto Defrost



Independent Dehumidification



Auto Restart



Sleep Mode



Anti-Cold Air



Air Flow Panel



Built-in Drain Pump



Wired Controller

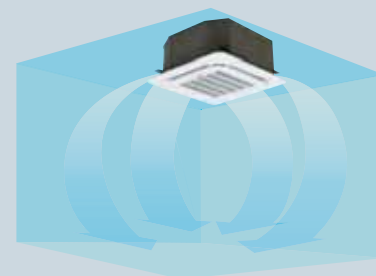
Standard

Optional

Features

360° Panel (compact TLV)

The all new 360° grille of the compact cassette ensures more equal, fast and wide range cooling. Larger models are fitted with the standard 4 way direction grille, with swing angles of up to 40°



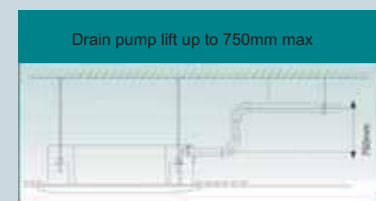
3D Screw Fan

3D Screw fan technology reduces air resistance, increases air volume and heat exchange, while reducing noise levels, creating more comfortable environments to work and play in.



Hi-lift condensate pump

A silent, efficient condensate drain pump enables a vertical lift of up to 750mm on the large capacity 4 way cassettes and 500mm on the small capacity compact cassettes. Condensate drainage is thus taken care of.



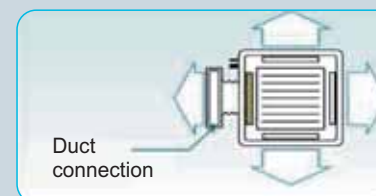
Fresh Air Intake

Units are fitted with a knock out panel that can be utilized to introduce fresh air into the room. This helps prevent the build up of stale air and enhances air quality in working environments and enclosed applications without natural fresh air supply.



External Duct Connection

Two knock out panels on the larger capacity 4 way cassettes allow for connection of air ducts to adjacent rooms. This feature enables the cooling or heating of small adjacent offices and store rooms.



Compact & Four Way Cassette Units

Technical Specification

Model		TLV012	TLV018	TNV024	TNV036	TNV048	TNV060	
Indoor Model		42TLV012	42TLV018	42TNV024	42TNV036	42TNV048	42TNV060	
Outdoor Model		38VN012	38VN018	38VN024	38VN036	38VN048	38VS060	
Power supply		Ph-V-Hz	1Ph, 220V,50Hz	1Ph, 220V,50Hz	1Ph, 220V,50Hz	1Ph, 220V,50Hz	1Ph, 220V,50Hz	3Ph, 380V,50Hz
Cooling	Capacity (max/min)	Btu/h	13000~7200	19100~8900	25700~12800	36600~19800	41800~23400	51200~26400
	Input	W	1189~529	2150~712	2451~808	4038~1660	4775~2178	6110~2624
	EER	W/W	3.20~3.97	2.89~4.06	3.08~4.63	2.66~3.50	2.57~3.16	2.46~2.94
Heating	Capacity (max/min)	Btu/h	13800~6500	19700~8500	26700~11600	40100~20100	49200~25800	58400~32700
	Input	W	1412~437	1931~659	2405~739	4100~1484	5254~2058	5839~2428
	COP	W/W	2.87~4.38	3.32~4.21	3.26~4.61	2.87~3.97	2.74~3.68	2.93~3.94
Max. input consumption		W	2200	2950	3000	4800	6000	7200
Max. current		A	10	13	13.5	22	28	14
Compressor	Type		Rotary	Rotary	Rotary	Rotary	Rotary	Scroll
	Capacity	Btu/h	10918	13170	15286	33642	33642	47440
	Input	W	855	990	1150	3080	3080	4160
	Rated current (RLA)	A	5.3	4.97	9.7	13.5	13.5	15.2
Indoor air flow (Hi/Mi/Lo)		m³/h	683/530/510	800/710/560	1327/1114/871	1530/1300/1120	1530/1300/1120	1800/1480/1280
Indoor noise level (Hi/Mi/Lo)		dB(A)	42.5/33.5	47/40/35	49/44/39	52/48/45	44/42.5/41	46/44/42
Indoor unit	Dimension (W*H*D) body	mm	570×260×570	570×260×570	840×230×840	840×300×840	840×300×840	840×300×840
	Packaging (W*H*D) body	mm	655×290×655	655×290×655	955×247×955	900×307×900	900×307×900	900×307×900
	Dimension (W*H*D) panel	mm	650×30×650	650×30×650	950×55×950	950×55×950	950×55×950	950×55×950
	Packaging (W*H*D) panel	mm	715×115×715	715×115×715	1035×90×1035	1035×90×1035	1035×90×1035	1035×90×1035
	Net/Gross weight body	kg	16/20	18/21	24/30	30/36	30/36	30/36
	Net/Gross weight panel	kg	3/5	3/5	6/9	6/9	6/9	6/9
Outdoor air flow		m³/h	1800	2200	3200	5100	6000	6000
Outdoor noise level		dB(A)	56	57	57	63	59	59
Outdoor unit	Dimension (W*H*D)	mm	760×590×285	760×590×285	845×695×335	990×965×355	940×1245×360	940×1245×360
	Packaging (W*H*D)	mm	887×645×355	887×645×355	965×755×395	1120×1100×435	1018×1380×435	1018×1380×435
	Net/Gross weight	Kg	36/40	40/42.5	53/57	82/87	106/114	124/130
Refrigerant type/ charge		g	R410A/ 1130	R410A/ 1320	R410A/ 2100	R410A/ 2750	R410A/4450	R410A/4000
Refrigerant piping	Liquid / Suction	inch	1/4" & 1/2"	1/4" & 1/2"	3/8" & 5/8"	3/8" & 5/8"	3/8" & 5/8"	3/8" & 5/8"
	Max. pipe length	m	10	25	25	30	50	50
	Max. height difference	m	6	12	12	20	25	30
Wiring	Power supply wiring	mm²	3x1.5	3x2.5	3x2.5	3x2.5	3x2.5	5x2.5
	Interconnecting cable	mm²	4x1.5	3x1.0	3x1.0	3x1.0	3x1.0	3x1.0
	Screened cable	mm²	-	3x0.5	3x0.5	3x0.5	3x0.5	3x0.5
Drain pipe diameter		mm	φ25	φ25	φ32	φ32	φ32	φ32
Control type			Remote control	Remote control	Remote control	Remote control	Remote control	Remote control
Operation set temp range		°C	17-30	17~30	17-30	17~30	17~30	17~30
Usable ambient temp (cooling/heating)		°C	0~43;-15~24	-15~43;-15~24	-15~ 43 ; -15~24	-15~43;-15~24	-15~ 43 ; -15~24	-15~ 43 ; -15~24
Application area		m²	13-21	21-35	28-47	42-70	56-93	64-107

Under Ceiling & Split Console Units



FLV036



Anti-Cold Air



Auto Restart



Auto Defrost



Quiet Design



Independent Dehumidification



Sleep Mode



24hr Timer



Wired Control

Standard

Optional

Features

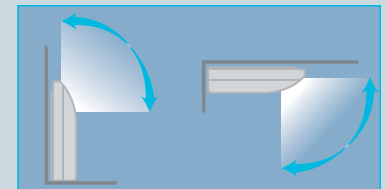
Flexible Drain Pipe Installation

Condensate drain connections can be made from either left or right side of the unit, offering ease of installation and unobtrusive drain piping



Flexible Unit Placement

The unit can be installed below the ceiling or on the floor against a wall. This feature allows for varied airflow application possibilities



Vertical and Horizontal Swing

Standard vertical as well as horizontal auto swing motors and louvers allow for increased airflow balance and user comfort



FLV048/060

Under Ceiling & Split Console Units

Technical Specification

Model		FLV036	FLV048	FLV060	
Indoor Model		42FLV036	42FLV048	42FLV060	
Outdoor Model		38VN036	38VN048	38VN060	
Power supply		Ph-V-Hz	1Ph, 220-240V~, 50Hz	1Ph, 220-240V~, 50Hz	3Ph, 380-415V~, 50Hz
Cooling	Capacity (max/nom/min)	Btu/h	35600~33500~17600	44300~40200~25500	47900~40100~26700
	Input	W	3926~3898~1654	4810~3888~2214	6304~4128~2653
	EER	W/W	2.51~2.52~3.11	2.70~3.03~3.38	2.13~2.84~2.94
Heating	Capacity (max/nom/min)	Btu/h	38800~37200~18700	53400~41700~27000	59500~46800~32500
	Input	W	4564~4268~1570	4912~3417~1998	6128~3999~2434
	COP	W/W	2.49~2.56~3.49	3.19~3.58~3.97	2.84~3.43~3.91
Max. input consumption		W	4800	6000	7500
Max. current		A	22	28	14
Compressor	Type		Rotary	Rotary	Scroll
	Capacity	Btu/h	33642	33642	47440
	Input	W	3080	3080	4160
	Rated current (RLA)	A	13.5	13.5	15.2
Indoor air flow (Hi/Mi/Lo)		m³/h	1400/1200/1000	2000/1800/1600	2000/1800/1600
Indoor noise level (Hi/Mi/Lo)		dB(A)	52/49/47	47/46/44	47/46/44
Indoor unit	Dimension (W*H*D)	mm	1280×203×660	1670×240×680	1670×240×680
	Packaging (W*H*D)	mm	1379×296×744	1764×329×760	1764×329×760
	Net/Gross weight	kg	37/42	52/59	52/59
Outdoor air flow		m³/h	5100	6000	6000
Outdoor noise level		dB(A)	63	59	59
Outdoor unit	Dimension (W*H*D)	mm	990×965×355	940×1245×360	940×1245×360
	Packaging (W*H*D)	mm	1120×1100×435	1018×1380×435	1018×1380×435
	Net/Gross weight	Kg	82/87	106/114	115/121
Refrigerant type/ charge		g	R410A/ 2750	R410A/4450	R410A/3850
Refrigerant piping	Liquid / Suction	mm(inch)	φ9.53/15.9 (3/8"/5/8")	φ9.53/15.9 (3/8"/5/8")	φ9.53/15.9 (3/8"/5/8")
	Max. pipe length	m	30	50	50
	Max. height difference	m	20	25	30
Wiring	Power supply wiring	mm²	3x2.5	3x2.5	5x2.5
	Interconnecting cable	mm²	3x1.0	3x1.0	3x1.0
	Screened cable	mm²	3x0.5	3x0.5	3x0.5
Drain pipe diameter		mm	φ25	φ25	φ25
Control type			Remote control	Remote control	Remote control
Operation set temp range		°C	17~30	17~30	17~30
Usable ambient temp		°C	Cooling: -15~43 Heating: -15~24	Cooling: -15~43 Heating: -15~24	Cooling: -15~43 Heating: -15~24

Ducted Units



Anti-Cold Air



Sleep Mode



Auto Restart



24hr Timer



Auto Defrost



Wired Control



Slim Design



Independent Dehumidification

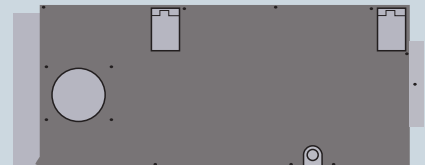
Standard

Optional

Features

Fresh Air Connection

Units are fitted with a fresh air knock out panel that can be utilized to introduce fresh air into the room. This helps prevent the build up of stale air and enhances air quality in working environments and enclosed applications without natural fresh air supply.



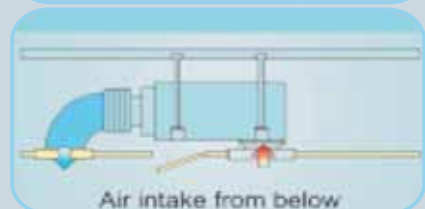
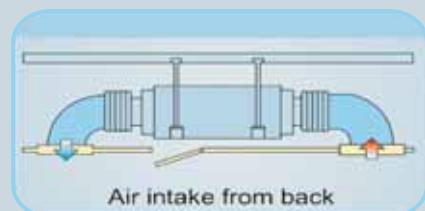
Enhanced Silent Airflow

Powerful airflow of up to 3000m³/h and maximum external static Pressure of 100 pascals enables a maximum noise level of as low as 47db.



Flexible Return Air Connections

Return air connections from the rear are standard. Should the installer need to connect return air plenums from the bottom of the unit, a simple modification can be done on site, through the re positioning of a cover plate



Group Control

By utilizing the optional group control, up to 64 indoor units can be controlled from a central point. This feature is particularly helpful in large office applications and hotels

Ducted Units

Technical Specification

Model			SMV036	SMV048	SMV060
Indoor Model			42SMV036	42SMV048	42SMV060
Outdoor Model			38VN036	38VN048	38VN060
Power supply		Ph-V-Hz	1Ph, 220-240V~, 50Hz	1Ph, 220-240V~, 50Hz	3Ph, 380-415V~, 50Hz
Cooling	Capacity (max/nom/min)	Btu/h	38100~36000~20900	45700~40700~25500	48200~42500~28000
	Input	W	4330~4284~1814	5074~4046~2339	6291~4175~2784
	EER	W/W	2.58~2.60~3.38	2.70~3.02~3.20	2.24~2.91~2.94
Heating	Capacity (max/nom/min)	Btu/h	42700~41000~20500	55800~42900~28000	61900~47900~33900
	Input	W	4155~3874~1596	4826~3380~2026	5813~3863~2487
	COP	W/W	3.01~3.10~3.77	3.39~3.72~4.06	3.12~3.63~3.99
Max. input consumption		W	4800	6000	7500
Max. current		A	22	28	14
Compressor	Type		Rotary	Rotary	Scroll
	Capacity	Btu/h	33642	33642	47440
	Input	W	3080	3080	4160
	Rated current(RLA)	A	13.5	13.5	15.2
Indoor air flow (Hi/Mi/Lo)		m ³ /h	2270/1890/1650	3010/2410/1940	2890/2465/2138
Indoor external static pressure (Hi)		Pa	80	100	100
Indoor noise level (Hi/Mi/Lo)		dB(A)	50/43/41	47/45/43	47/45/43
Indoor unit	Dimension (W*H*D)	mm	1140×270×710	1200×300×865	1200×300×865
	Packaging (W*H*D)	mm	1355×350×795	1385×373×920	1385×373×920
	Net/Gross weight	Kg	43/50	50/59	50/59
Outdoor air flow		m ³ /h	5100	6000	6000
Outdoor noise level		dB(A)	63	59	59
Outdoor unit	Dimension (W*H*D)	mm	990×965×355	940×1245×360	940×1245×360
	Packaging (W*H*D)	mm	1120×1100×435	1018×1380×435	1018×1380×435
	Net/Gross weight	Kg	82/87	106/114	115/121
Refrigerant type/ charge		g	R410A/ 2750	R410A/4450	R410A/3850
Refrigerant piping	Liquid / Suction	mm(inch)	φ9.53/15.9 (3/8"/5/8")	φ9.53/15.9 (3/8"/5/8")	φ9.53/15.9 (3/8"/5/8")
	Max. pipe length	m	30	50	50
	Max. height difference	m	20	25	30
Wiring	Power supply wiring	mm ²	3x2.5	3x2.5	5x2.5
	Interconnecting cable	mm ²	3x1.0	3x1.0	3x1.0
	Screened cable	mm ²	3x0.5	3x0.5	3x0.5
Drain pipe diameter		mm	φ25	φ25	φ25
Control type			Wired control	Wired control	Wired control
Set temperature range		°C	17-30	17-30	17~30
Usable ambient temp (cooling/heating)		°C	-15~43 / -15~24	-15~43 / 15~24	-15~43 / 15~24

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Cooling Conditions: 35°C DB and 24°C WB outdoor; 27°C DB and 19°C indoor.
 Heating Conditions: 7°C DB and 6°C WB outdoor; 20°C DB and 15°C WB indoor.
 Specification and performance data are subject to change without prior notice for product improvement purposes.