

Your *natural* conditions



AIR CONDITIONING / TECHNICAL CATALOGUE

2010

# Your conditions!



Since 1916, **inventor** pioneers in the US market, by designing and manufacturing innovative air conditioning and heat pump units.

The company's primary competitive advantage is the use of its know-how expertise gained in the past, to build air conditioning systems of the future.

The key to **inventor** units' success is that they are specifically designed to enable the modern individual invent his own custom made living and working conditions.

Regulating effectively the natural environment, **inventor** units can create silently the perfect indoor conditions; your conditions!

The manufacturing technology used in the production of **inventor** heat pump and air conditioning units ensures their reliable operation according to the highest energy-class standards, achieving maximum performance with minimum consumption rates, respecting the environment.



All **inventor** units carry a 5-year Warranty for the compressor and for all parts of the unit.

**inventor** units can be found all across Europe in a continuously growing selected network of air conditioning professionals!

Their excellent quality and operational efficiency has been awarded by the European Union with the highest standard certificates.

Furthermore, the use of the environmental friendly refrigerants (freon) do not contribute to the increase of the global warming environment.

Listed by applied research laboratories



We recommend Heating & Cooling Equipment with the ENERGY STAR® Logo the Symbol for Energy Efficiency.

## NEW TECHNOLOGIES

### ADVANCED DC INVERTER TECHNOLOGY

- By choosing a DC Inverter air conditioning unit you succeed low energy consumption up to 44% compared to conventional technology.
- In addition, a DC Inverter air conditioning unit approaches and maintains the desired temperature faster, while the operation of the unit is extremely quiet.



### ENERGY CLASS A

- According to the European Union, all electrical appliances are classified from class A to class G in respect of their performance and energy consumption. Consequently seven energy classes are created (from A to G) where A is the most efficient while G is the less one.
- By choosing an Energy Class A unit you succeed the highest performance with the least energy consumption.



### ENVIRONMENTAL FRIENDLY REFRIGERANTS

- **Inventor** units use environmental friendly refrigerants (Freon) R410A and R407C, thus they do not contribute to the increase of the global warming phenomenon and at the same time they protect the environment.



### AUTO CLEAN FUNCTION\*

- Auto Clean Function does not allow mold and bad smells to grow in the indoor unit, while operating in cooling mode.
- When we turn off the unit, the indoor fan continues its operation in low speed. In this way it dries the inner parts of the unit and it does not allow any pollution area to be created.
- This function is activated from the controller.

### TURBO FUNCTION\*

- Turbo Function achieves the desired temperature at minimum time with low energy consumption.

### INTELLIGENT DEFROST

- Power saving and improved heating efficiency by intelligent defrost. INTELLIGENT DEFROST is achieved only by sensors that they control the need and duration of DEFROST PROCESS.

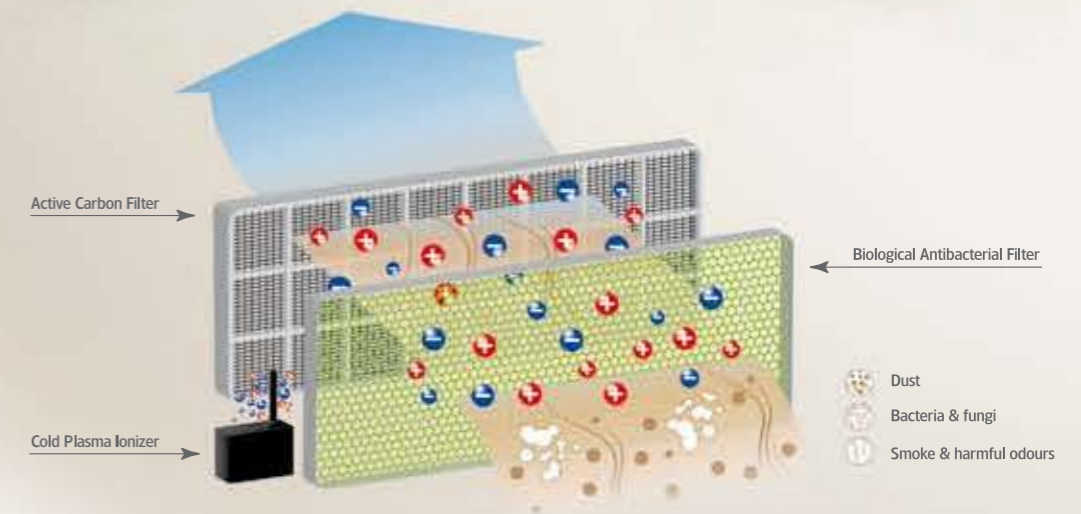
### U-MATCH TECHNOLOGY

- Universal outdoor units ULS/ULT and URS/URT for all residential and ducted units contribute to have a common way to solve technical problems. In addition, the parts are identical and there is no need to have different part for each outdoor.



### COLD PLASMA IONIZER\*

- COLD PLASMA technology is currently one of the most advanced air-cleaning technologies in the world.
- COLD PLASMA Ionizer releases positive and negative ions in the air, thus it disinfects and diminishes bad smells in the room.
- Furthermore it gathers house dust, pollen and other small particles that are responsible for allergies.
- At the same time it generates negative ions, in order to create a safe, healthy and relaxing environment.



### BIOLOGICAL ANTIBACTERIAL FILTER\*














- The Biological Antibacterial Filter has the ability to disinfect the air from bacteria by 95% and at the same time to collect small particles like dust and pollen from the environment.
- When air passing the filter, dust and bacteria are adhered on the surface of filter, where there is bio-bactericide.
- The Biological Antibacterial Filter stops drastically the reproduction and growth of bacteria and as a result, it completely eliminates them.
- It is safe and environmental friendly.

### ACTIVE CARBON FILTER\*

- Active carbon is an extremely absorbent element which has dual function, physical and chemical absorption.
- Due to its technological evolution, active carbon is able to absorb fast, harmful gases from the environment such as petrol, formaldehyde and ammonia.
- Active Carbon Filter offers a clean, odourless and healthy environment.

\* applies to API/APO & CVI/CVO models

**WALL MOUNTED UNITS**

	Model	Refrigerant	Range of Cooling Capacity (KW)	Page
<b>WALL MOUNTED UNITS</b> 	APSI + APSO	R410A	2.6-8.0	11
<b>COLD PLASMA SERIES</b>  	API + APO	R410A	2.6-5.3	13
<b>ULTRA THIN SERIES</b>  	XI + XO	R410A	2.6-3.5	15
<b>WALL MOUNTED UNITS</b>  	EVI + EVO	R410A	2.6-6.8	17
<b>COLD PLASMA SERIES</b>   	CVI + CVO	R410A	2.6-6.4	19
<b>ULTRA THIN SERIES</b>   	XVI + XVO	R410A	2.6-3.5	21

**RESIDENTIAL SYSTEMS**

	Model	Refrigerant	Range of Cooling Capacity (KW)	Page
<b>FLOOR STANDING UNITS</b> 	RFI + RFO	R410A	7.0-17.6	23
<b>FLOOR STANDING UNITS</b>  	V1RFI + V1RFO	R410A	7.0-12.3	25
<b>FLOOR - CEILING UNITS</b> 	IKI + ULS/ULT	R410A	3.8-14.2	27
<b>FLOOR - CEILING UNITS</b>  	VKI + URS/URT	R410A	7.0-14.1	29
<b>4-WAY CASSETTE UNITS</b> 	ICI + ULS/ULT	R410A	5.1-14.4	31
<b>4-WAY CASSETTE UNITS</b>  	VCI + URS/URT	R410A	7.0-14.1	33

**DUCTED SYSTEMS**

	Model	Refrigerant	Range of Cooling Capacity (KW)	Page
<b>DUCTED SPLIT SYSTEMS</b> 	T4BX + B5BX TSX + B5BX	R410A R407C	15.8 15.8	37
<b>LOW PROFILE DUCTED SPLIT SYSTEMS</b> 	NDI + NDO IDI+ULS/ULT	R407C R410A	17.6 7.6-17.6	39
<b>LOW PROFILE DUCTED SPLIT SYSTEMS</b>  	VDI + URS/URT	R410A	7.0-17.6	41

**COMMERCIAL SYSTEMS**

	Model	Refrigerant	Range of Cooling Capacity (KW)	Page
<b>DUCTED SPLIT SYSTEMS</b> 	HTBI 100 + HTBO100 H2TBI 100 + H2TBO100 HTBI 120+ HTBO120	R407C R410A R410A	25.0 24.5 32.2	43



WALL MOUNTED UNITS



API   
 APSI  
 CVI  



EVI 



XI  
 XVI   
 Mirror



Rainorange



Rosato



Azzuratto



RESIDENTIAL SYSTEMS



V1RFI-30,50



RFI-30

RFI-50

RFI-66



IKI  
 VKI 



ICI  
 VCI 



## WALL MOUNTED UNITS

### NEW MODELS



APSI

- Energy class A/A (APS-09, APS-12)
- Energy class A/B (APS-18, APS-24)
- Ultra quiet operation
- R410A environmental friendly refrigerant
- Auto Clean Function in cooling mode-protects the inner parts of the unit from mold and odors
- Elegant design
- LCD display and wireless remote control
- Activation and deactivation of the display on demand
- 24-hour programming
- Auto swing louver
- Auto restart
- Higher efficiency and low power consumption due to New Defrost function
- Hot Start operation: the indoor coil sensor controls the indoor fan and prevents cold air during start up in heating mode
- Ideal indoor environment with auto mode function

### TECHNICAL SPECIFICATIONS

MODEL		APSI-09/APSO-09	APSI-12/APSO-12	APSI-18/APSO-18	APSI-24/APSO-24	APSI-30/APSO-30
<b>Type</b>		Split type, cooling and heating				
Cooling capacity	Btu/h	9.000	11.000	16.036	22.519	27.296
	Watt	2.638	3.224	4.700	6.600	8.000
Heating capacity	Btu/h	9.600	12.000	16.719	24.737	30.026
	Watt	2.814	3.517	4.900	7.250	8.800
Power input cooling / heating (W)		821/779	1.004/973	1.460/1.430	2.056/2.126	2.850/2.700
Moisture removal (L/H.r)		0.93	1.0	2.0	2.4	3.0
Air circulation (CMH Max)		400	550	850	900	1.200
EER for cooling (W/W)		3.21	3.21	3.22	3.21	2.81
COP for heating (W/W)		3.61	3.61	3.43	3.41	3.26
Energy class	Cooling	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>C</b>
	Heating	<b>A</b>	<b>A</b>	<b>B</b>	<b>B</b>	<b>C</b>
Refrigerant		<b>R410A</b> / 760g	<b>R410A</b> / 840g	<b>R410A</b> / 1150g	<b>R410A</b> / 1.700g	<b>R410A</b> / 2.600g
<b>Power supply</b>		230V / 1PH / 50Hz				
Rated current cooling / heating (A)		4.6/5.1	6.3/6.1	10/10	12.6/13.4	16.1/15.2
LRA (A)		20.9	23	32	49.5	60
Noise level (dB (A))	Indoor unit	High	37	38	43	49
	Low	32	32	37	35	45
Outdoor unit		50	52	55	57	60
Compressor type		Rotary	Rotary	Rotary	Rotary	Rotary
Refrigerant line		1/4"	1/4"	1/4"	1/4"	3/8"
Gas line		1/2"	1/2"	1/2"	5/8"	5/8"
<b>Other features</b>						
Dimensions WxHxD (mm)	Indoor unit	730x255x174	790x265x177	940x298x200	1.007x315x219	1.178x326x227
	Outdoor unit	785x540x320	798x540x320	848x540x320	955x700x424	1.006x840x412
Net weight (Kg)	Indoor unit	8	9	13	15.5	17.5
	Outdoor unit	31	35	40	57	72
Packing dimensions WxHxD (mm)	Indoor unit	790x325x245	870x355x248	1.010x380x285	1.073x395x313	1.265x417x328
	Outdoor unit	820x580x355	825x580x355	878x580x360	1.030x736x460	1.100x905x450
Gross weight (Kg)	Indoor unit	10.5	12	17	20.5	24
	Outdoor unit	34	40	44	62	77
<b>Certificates</b>		CE	CE	CE	CE	CE
		ISO9001	ISO9001	ISO9001	ISO9001	ISO9001
		ISO14001	ISO14001	ISO14001	ISO14001	ISO14001



## NEW TECHNOLOGIES



### ENERGY CLASS A

the most efficient performance can be achieved with the lowest energy consumption

### ENVIRONMENTAL FRIENDLY REFRIGERANT

contributes to the protection of the environment

**R410A**

### AUTO CLEAN FUNCTION

protects from mold and odours the inner part of the unit

### TURBO FUNCTION

the desired temperature can be achieved at minimum time

### COLD PLASMA IONIZER

disinfects, sterilizes and keeps away bad smells

### BIOLOGICAL ANTIBACTERIAL FILTER

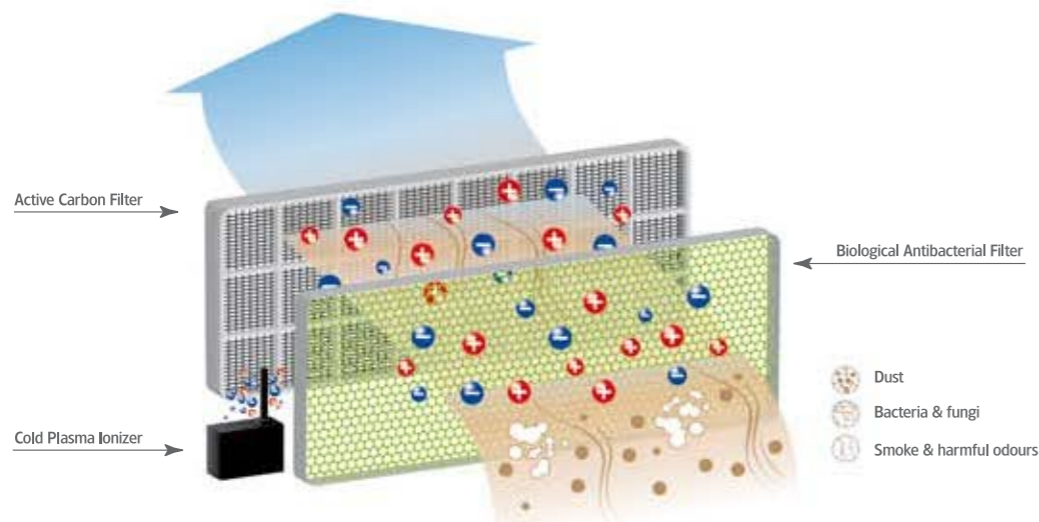
eliminates the number of bacteria by 95%

### ACTIVE CARBON FILTER

protects from harmful odours such as petrol, ammonia etc.

### INTELLIGENT DEFROST

power saving and improved heating efficiency by intelligent defrost



## WALL MOUNTED UNITS COLD PLASMA SERIES



- Energy class A/A (AP-09, AP-12)
- Energy class A/B (AP-18)
- R410A environmental friendly refrigerant
- Ultra quiet operation
- Biological Antibacterial Filter – eliminates the number of bacteria by 95%
- Cold Plasma Ionizer – disinfects, sterilizes and deodorizes the air
- Active Carbon Filter – protects from harmful odors
- Auto Clean Function in cooling mode-protects the inner parts of the unit from mold and odors
- Turbo function – the desired temperature is reached at minimum time
- Elegant design
- LCD display and wireless remote control
- Activation and deactivation of the display on demand
- 24-hour programming
- Auto swing louver
- Higher efficiency and low power consumption due to New Defrost function
- Auto restart

### TECHNICAL SPECIFICATIONS

MODEL		API-09/APO-09	API-12/APO-12	API-18/APO-18	
<b>Type</b>		Split type, cooling and heating			
Cooling capacity	Btu/h	9000	12000	18000	
	Watt	2638	3517	5276	
Heating capacity	Btu/h	9600	13600	19500	
	Watt	2814	3986	5715	
Power input cooling / heating (W)		809 / 775	1075 / 1100	1640 / 1670	
Moisture removal (L/H.r)		0.8	1.2	3.0	
Air circulation (CMH Max)		500	630	850	
EER for cooling (W/W)		3.26	3.27	3.22	
COP for heating (W/W)		3.63	3.62	3.42	
Energy class	Cooling	<b>A</b>	<b>A</b>	<b>A</b>	
	Heating	<b>A</b>	<b>A</b>	<b>B</b>	
Refrigerant		<b>R410A</b> / 750g	<b>R410A</b> / 1100g	<b>R410A</b> / 1500g	
<b>Power supply</b>		230V / 1PH / 50Hz			
Rated current cooling / heating (A)		5.0 / 4.5	8.5 / 8.5	10.9 / 11.1	
LRA (A)		18	32	40	
Noise level (dB (A))	Indoor unit	High	36	38	45
		Medium	33	34	42
	Low	30	30	38	
Outdoor unit		50	51	56	
Compressor type		Rotary	Rotary	Rotary	
Refrigerant line		1/4"	1/4"	1/4"	
Gas line		3/8"	1/2"	1/2"	
<b>Other features</b>					
Dimensions WxHxD (mm)	Indoor unit	790x265x170	845x275x180	940x298x200	
	Outdoor unit	848x540x320	848x540x320	913x680x378	
Net weight (Kg)	Indoor unit	9	10	13	
	Outdoor unit	26	40	46	
Packing dimensions WxHxD (mm)	Indoor unit	870x355x248	915x355x255	1010x380x285	
	Outdoor unit	878x590x360	878x590x360	994x725x428	
Gross weight (Kg)	Indoor unit	12	13	17	
	Outdoor unit	30	44	50	
		CE	CE	CE	
<b>Certificates</b>		ISO9001	ISO9001	ISO9001	
		ISO14001	ISO14001	ISO14001	





Green Effect



Grigio Titanium Effect



Rosso Barchetta



Canna Di Fucile Met.



Pearl White



Siver



WALL MOUNTED UNITS  
ULTRA THIN SERIES



XI - Ultra Thin Series

Rainorange



Mirror



Azzuratto



Rosato



- Energy class A/B
- R410A environmental friendly refrigerant
- Elegant design
- Quiet operation
- LCD wireless remote control
- Auto restart
- Auto swing louver
- 24-hour programming
- Washable filter

TECHNICAL SPECIFICATIONS

MODEL		XI-09/XO-09	XI-12/XO-12
<b>Type</b>		Split type, cooling and heating	
Cooling capacity	Btu/h	9.000	12.000
	Watt	2.638	3.517
Heating capacity	Btu/h	10.000	13.000
	Watt	2.931	3.810
Power input cooling / heating (W)		768 / 840	1.079 / 1.103
Moisture removal (L/H.r)		1	1
Air circulation (CMH Max)		450	500
EER for cooling (W/W)		3.43	3.26
COP for heating (W/W)		3.49	3.45
Energy class	Cooling	<b>A</b>	<b>A</b>
	Heating	<b>B</b>	<b>B</b>
Refrigerant		<b>R410A</b> / 1.350g	<b>R410A</b> / 1.400g
<b>Power supply</b>		230V / 1PH / 50Hz	
Rated current cooling / heating (A)		3.24 / 3.66	4.69 / 4.80
LRA (A)		17	24
Noise level (dB (A))	Indoor unit	High	38
		Medium	35
		Low	32
	Outdoor unit	53	54
Compressor type		Rotary	Rotary
Refrigerant line		1/4"	1/4"
Gas line		3/8"	1/2"
<b>Other features</b>			
Dimensions WxHxD (mm)	Indoor unit	1.005x290x150	1.005x290x150
	Outdoor unit	848x540x320	848x540x320
Net weight (Kg)	Indoor unit	11	11
	Outdoor unit	36	36
Packing dimensions WxHxD (mm)	Indoor unit	1.080x358x243	1.080x358x243
	Outdoor unit	878x600x360	878x600x360
Gross weight (Kg)	Indoor unit	13	13
	Outdoor unit	44	44
<b>Certificates</b>		CE / ISO9001 / ISO14001	CE / ISO9001 / ISO14001

9 new colors (optional) for Ultra Thin panels; additional to the standard one (silver):

Type	Panels
P01	Rosso Barchetta
P02	Grigio Titanium Effect
P03	Canna Di Fucile Met.
P04	Green Effect
P05	Pearl White
P06	Rainorange
P07	Azzuratto
P08	Rosato
P09	Mirror





## DC INVERTER



## WALL MOUNTED UNITS

### DC INVERTER



EVI

### NEW MODELS

- Energy class A/A
- Advanced DC Inverter technology for high efficiency in extreme outdoor conditions
- Ultra quiet operation (from 24db)
- R410A environmental friendly refrigerant
- Biological Antibacterial Filter – eliminates the number of bacteria by 95%
- Active Carbon Filter – protects from harmful odors
- Turbo function – the desired temperature is reached at minimum time
- Auto Clean Function in cooling mode-protects the inner parts of the unit from mold and odors
- Elegant design
- LCD display and wireless remote control
- Activation and deactivation of the display on demand
- Optional lock of the remote control's keypad
- Steady operation in extreme outdoor conditions without efficiency loss
- Higher efficiency and low power consumption due to New Defrost function
- 24-hour programming
- Auto defrost mode or defrost mode on demand
- Auto restart
- Auto swing louver
- Hot Start operation: the indoor coil sensor controls the indoor fan and prevents cold air during start up in heating mode
- Low power consumption

### TECHNICAL SPECIFICATIONS

MODEL		EVI-09/EVO-09	EVI-12/EVO-12	EVI-18/EVO-18	EVI-24/EVO-24
<b>Type</b>		Inverter, split type, cooling and heating			
Cooling capacity	Btu/h	9.042 (1.500-11.000)	12.044 (2.047-13.511)	18.345 (3.583-22.178)	23.154 (4.777-23.884)
	Watt	2.650 (440-3.224)	3.530 (600-3.960)	5.377 (1.050-6.500)	6.786 (1.400-7.000)
Heating capacity	Btu/h	12.010 (1.500-14.000)	13.989 (2.047-17.503)	21.552 (3.412-23.884)	25.088 (4.094-26.614)
	Watt	3.520 (440-4.103)	4.100 (600-5.130)	6.317 (1.000-7.000)	7.353 (1.200-7.800)
Power input cooling / heating (W)		800 / 950	1.100/1.135	1.625/1.750	2.088/2.031
Moisture removal (L/H.r)		0.8	1.5	3.0	4.0
Air circulation (CMH Max)		600	680	730	800
EER for cooling (W/W)		3.30	3.21	3.31	3.25
COP for heating (W/W)		3.70	3.61	3.61	3.62
Energy class	Cooling	A	A	A	A
	Heating	A	A	A	A
Refrigerant		R410A / 740g	R410A / 1.000g	R410A / 1.250g	R410A / 1.400g
<b>Power supply</b>		230V / 1PH / 50Hz			
Rated current cooling / heating (A)		6.3/6.8	6.5/7.8	11.4/12	11.4/12.4
LRA (A)		25	25	41	41
Noise level (dB (A))	Indoor unit	High	36	37	45
		Low	24	25	32
	Outdoor unit	47	53	54	54
Compressor type		Rotary	Rotary	Twin Rotary	Twin Rotary
Refrigerant line		1/4"	1/4"	1/4"	1/4"
Gas line		3/8"	3/8"	1/2"	1/2"
<b>Other features</b>					
Dimensions WxHxD (mm)	Indoor unit	770x283x201	770x283x201	865x305x215	1.008x319x221
	Outdoor unit	658x550x275	658x550x275	955x700x424	955x700x396
Net weight (Kg)	Indoor unit	8	9	12	15
	Outdoor unit	28	30	52	52
Packing dimensions WxHxD (mm)	Indoor unit	844x342x261	844x342x261	945x380x295	1.073x395x313
	Outdoor unit	771x592x348	771x592x348	1.030x460x735	1.030x460x735
Gross weight (Kg)	Indoor unit	11	12	16	20
	Outdoor unit	32	34	57	57
<b>Certificates</b>		CE	CE	CE	CE
		ISO9001	ISO9001	ISO9001	ISO9001
		ISO14001	ISO14001	ISO14001	ISO14001



## NEW TECHNOLOGIES

### ADVANCED DC INVERTER TECHNOLOGY

stable temperature and up to 44% energy saving



### ENERGY CLASS A



the most efficient performance can be achieved with the lowest energy consumption

### ENVIRONMENTAL FRIENDLY REFRIGERANT

contributes to the protection of the environment



### AUTO CLEAN FUNCTION

protects from mold and odours the inner part of the unit

### TURBO FUNCTION

the desired temperature can be achieved at minimum time

### COLD PLASMA IONIZER

disinfects, sterilizes and keeps away bad smells

### BIOLOGICAL ANTIBACTERIAL FILTER

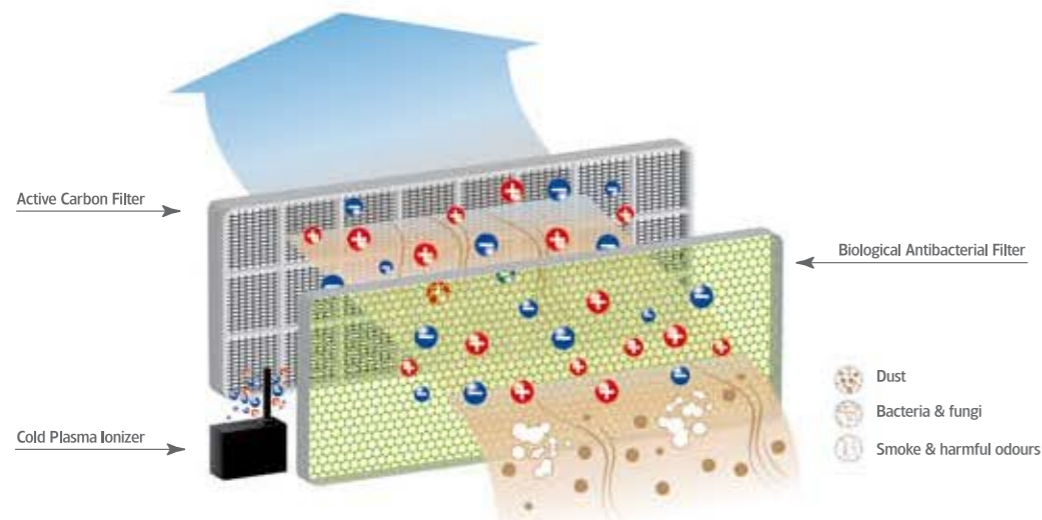
eliminates the number of bacteria by 95%

### ACTIVE CARBON FILTER

protects from harmful odours such as petrol, ammonia etc.

### INTELLIGENT DEFROST

power saving and improved heating efficiency by intelligent defrost



## WALL MOUNTED UNITS COLD PLASMA SERIES

DC INVERTER



CVI



- Energy class A/A
- Advanced DC Inverter technology for high efficiency in extreme outdoor conditions
- Ultra quiet operation
- R410A environmental friendly refrigerant
- Biological Antibacterial Filter – eliminates the number of bacteria by 95% CVI-12,18,24
- Cold Plasma Ionizer – disinfects, sterilizes and deodorizes the air
- Active Carbon Filter – protects from harmful odors
- Turbo function – the desired temperature is reached at minimum time
- Higher efficiency and low power consumption due to New Defrost function
- Auto Clean Function in cooling mode-protects the inner parts of the unit from mold and odors
- Elegant design
- LCD display and wireless remote control
- Activation and deactivation of the display on demand
- 24-hour programming
- Removable and washable panel
- Washable filter
- Steady operation in extreme outdoor conditions without efficiency loss
- Auto restart
- Low power consumption

### TECHNICAL SPECIFICATIONS

MODEL		CVI-09/CVO-09	CVI-12/CVO-12	CVI-18/CVO-18	CVI-24/CVO-24
<b>Type</b>		Inverter, split type, cooling and heating			
Cooling capacity	Btu/h	9.000 (4.026-10.577)	12.000 (4.162-12.966)	18.100 (8500-19.800)	21.995 (6.800-23.200)
	Watt	2.638 (1.180-3.100)	3.517 (1.220-3.800)	5.305 (2.491-5.803)	6.446 (1.993-6.800)
Heating capacity	Btu/h	11.000 (4.094-12.966)	13.700 (4.470-16.173)	20.000 (7.850-21.800)	23.870 (5.460-28.000)
	Watt	3.224 (1.200-3.800)	3.986 (1.310-4.740)	5.862 (2.301-6.389)	6.996 (1.600-8.206)
Power input cooling / heating (W)		800 / 880	1.090 / 1.100	1.560 / 1.620	2.002 / 1.766
Moisture removal (L/H.r)		1.2	1.6	2.0	2.4
Air circulation (CMH Max)		500	560	850	850
EER for cooling (W/W)		3.30	3.23	3.4	3.22
COP for heating (W/W)		3.66	3.62	3.62	3.65
Energy class	Cooling	A	A	A	A
	Heating	A	A	A	A
Refrigerant		R410A / 800g	R410A / 1.150g	R410A / 1.600gr	R410A / 2.400gr
<b>Power supply</b>		230V / 1PH / 50Hz			
Rated current cooling / heating (A)		6.1 / 6.3	7.0 / 7.2	10.48 / 10.71	14 / 14.2
LRA (A)		25	25	41	41
Noise level (dB (A))	Indoor unit	High	40	41	48
		Medium	36	38	43
		Low	33	35	40
	Outdoor unit	53	54	56	58
Compressor type		Rotary	Rotary	Twin Rotary	Twin Rotary
Refrigerant line		1/4"	1/4"	1/4"	1/4"
Gas line		3/8"	1/2"	1/2"	1/2"
<b>Other features</b>					
Dimensions WxHxD (mm)	Indoor unit	790x265x170	845x275x180	1.020x319x234	1.060x319x234
	Outdoor unit	848x540x320	848x540x320	848x685x378	950x840x420
Net weight (Kg)	Indoor unit	9	10	13	13
	Outdoor unit	35	36	52	68
Packing dimensions WxHxD (mm)	Indoor unit	870x355x248	915x355x255	1.078x325x390	1.078x325x390
	Outdoor unit	878x590x360	878x590x360	994x428x750	1.100x450x905
Gross weight (Kg)	Indoor unit	12	13	17	17
	Outdoor unit	40	44	57	73
		CE	CE	CE	CE
<b>Certificates</b>		ISO9001	ISO9001	ISO9001	ISO9001
		ISO14001	ISO14001	ISO14001	ISO14001



**DC INVERTER**

**colors**  
by inventor



Mirror

**inventor**

WALL MOUNTED UNITS ULTRA THIN SERIES

**DC INVERTER**

**colors**  
by inventor



Rainorange

XVI-09, 12

- Energy class A
- Advanced DC Inverter technology for high efficiency in extreme outdoor conditions
- Ultra quiet operation
- R410A environmental friendly refrigerant
- Elegant design
- 9 colors (optional) for the Ultra Thin panels (see page 15)
- Active Carbon Filter – protects from harmful odors
- Wireless remote control with LCD display
- Auto swing louver
- Auto restart
- 24-hour programming
- Removable and washable panel
- Washable filter
- Steady operation in extreme outdoor conditions without efficiency loss
- Low power consumption

**TECHNICAL SPECIFICATIONS**

MODEL	XVI-09/XVO-09	XVI-12/XVO-12	
<b>Type</b>	Inverter, split type, cooling and heating		
Cooling capacity	Btu/h	9.000 (1.228-11.000)	12.000 (1.331-14.000)
	Watt	2.638 (360-3.224)	3.517 (390-4.103)
Heating capacity	Btu/h	10.236 (1.228-13.000)	13.648 (1.331-15.000)
	Watt	3.000 (360-3.810)	4.000 (390-4.396)
Power input cooling/heating (W)	772 / 888	1.095 / 1.137	
Moisture removal (L/H.r)	1.2	1.2	
Air circulation (CMH Max)	450	500	
EER for cooling (W/W)	3.42	3.21	
COP for heating (W/W)	3.38	3.52	
Energy class	Cooling	<b>A</b>	<b>A</b>
	Heating	<b>C</b>	<b>B</b>
Refrigerant	<b>R410A</b> / 1.200g	<b>R410A</b> / 1.270g	
<b>Power supply</b>	230V / 1PH / 50Hz		
Rated current cooling/heating (A)	6.0 / 6.2	7.0 / 7.2	
LRA (A)	33	33	
Noise level (dB (A))	Indoor (H/M/L)	38 / 35 / 32	40 / 37 / 34
	Outdoor unit	53	54
Compressor type	Rotary	Rotary	
Refrigerant line	1/4"	1/4"	
Gas line	3/8"	1/2"	
<b>Other features</b>			
Dimensions WxHxD (mm)	Indoor unit	1.005x290x150	1.005x290x150
	Outdoor unit	848x540x320	848x540x320
Net weight (Kg)	Indoor unit	11	11
	Outdoor unit	40	40
Pack. dimensions WxHxD (mm)	Indoor unit	1.080x358x243	1.080x358x243
	Outdoor unit	878x590x360	878x590x360
Gross weight (Kg)	Indoor unit	13	13
	Outdoor unit	44	44
<b>Certificates</b>		CE	CE
		ISO9001	ISO9001
		ISO14001	ISO14001



## FLOOR STANDING UNITS



- R410A environmental friendly refrigerant
- LCD display and wireless remote control
- Sanyo Scroll compressor
- Compressor protection function with 3 minutes time delay and 6 minutes minimum operating time (RFO-66)
- Low temperature start; auxiliary heating with electric heater included as standard
- High air flow
- Auto error diagnosis
- Vertical auto swing louver
- 24-hour programming
- Auto restart
- High/low pressure switch, phase protector and overload protection
- Sensors for high and low pressure protection
- Heavy gauge galvanized steel with corrosion resistant electrostatic paint and blue fin coil
- Low power consumption
- Quiet operation



**NEW** MODELS

### TECHNICAL SPECIFICATIONS

MODEL (indoor + outdoor)		RFI-30+RFO-30	RFI-50+RFO-50	RFI-66+RFO-66
Cooling capacity	Btu/h	24.000	48.000	60.000
	Watt	7.034	14.068	17.585
Heating capacity + Auxiliary heating	Btu/h	28.000+7165	49.000+11.942	66.000+11.942
	Watt	8.206+2.100	14.361+3.500	19.344+3.500
<b>Electrical Data</b>				
Voltage/Frequency/Phase (V/Hz/Ph)		230/50/1	380/50/3	380/50/3
Power input cooling / heating (W)		2.650 / 2.600	4.800 / 4.700	7.006/6.240
Rated current cooling / heating (A)		16.5 / 12	7.5 / 7.4	12.1/12
PTC heater power input (W)		2.100	3.500	3.500
<b>Outdoor unit</b>				
Power supply wires (Noxmm <sup>2</sup> ) / Fuses (A)		-	5x4 / 3x20	5x4 / 3x25
EER (W/W)		2.65	2.93	2.51
COP (W/W)		3.16	3.06	3.1
Noise level (dB (A))		56	61	63
<b>Indoor unit</b>				
Power supply wires (Noxmm <sup>2</sup> ) / Fuses (A)		3x4 / 1x25	-	5x2.5 / 3x16
Signal wires		2x1* & 4x1.5 & 4x2.5	4x1* & 5x1.5 & 5x2.5	4x1* & 6x1.5
Air flow (m <sup>3</sup> /h)		900	1.600	2.000
Moisture removal (L/H.r)		2.8	5.0	5.2
Speeds		3		
Noise level high/low (dB (A))		52 / 46	55 / 49	58 / 50
<b>Other features</b>				
Dimensions HxLxW (mm)	Indoor unit	1.750x500x300	1.790x540x380	1.750x540x380
	Outdoor unit	950x700x412	1.250x950x412	1.250x950x412
Net weight indoor / outdoor unit (Kg)		43 / 65	58 / 112	60 / 115
Refrigerant line		3/8"	1/2"	1/2"
Gas line		5/8"	3/4"	3/4"
Refrigerant		<b>R410A</b> / 2.400g	<b>R410A</b> / 3.800g	<b>R410A</b> / 5.000g

(\*) stranded wire





- Energy class A/A
- Advanced DC Inverter technology for high efficiency in extreme outdoor conditions
- Ultra quiet operation
- Available in red and silver mirror panel
- R410A environmental friendly refrigerant
- Auto error diagnosis
- Auto restart
- LCD display and wireless remote control
- 24-hour programming
- Vertical and horizontal auto swing louver
- Steady operation in extreme outdoor conditions without efficiency loss
- Low power consumption
- Electrostatic air filter traps 97% of all allergens and other airborne dust particulates
- Ideal indoor environment with auto mode function
- Activation and deactivation of the display on demand
- Humidity indication
- Outdoor temperature indication
- Keypad lock on user's demand
- Turbo function – the desired temperature is reached at minimum time
- Auto Clean Function in cooling mode-protects the inner parts of the unit from mold and odors
- Hot Start operation: the indoor coil sensor controls the indoor fan and prevents cold air during start up in heating mode
- Lower energy consumption and higher efficiency due to the New Defrost function

NEW MODELS

VIRFI



TECHNICAL SPECIFICATIONS

MODEL (indoor + outdoor)		V1RFI-30+V1RFO-30	V1RFI-50+V1RFO-50
Cooling capacity	Btu/h	24.000 (8.500-28.500)	42.000 (21.000-46.000)
	Watt	7.034 (2.491-8.353)	12.309 (6.155-13.482)
Heating capacity	Btu/h	26.850 (5.500-32.000)	48.000 (22.000-52.000)
	Watt	7.869 (1.612-9.379)	14.068 (6.448-15.240)
<b>Electrical Data</b>			
Voltage/Frequency/Phase (V/Hz/Ph)		230/50/1	380/50/3
Power input cooling / heating (W)		2.191/2.180	3.800/3.850
Rated current cooling / heating (A)		10 / 10	6.8/7.3
<b>Outdoor unit</b>			
Power supply wires (Noxmm <sup>2</sup> ) / Fuses (A)		3x4/1x25	5x4/3x20
EER (W/W)		3.21	3.24
COP (W/W)		3.61	3.65
Noise level (dB (A))		56	58
<b>Indoor unit</b>			
Power supply wires (Noxmm <sup>2</sup> ) / Fuses (A)		-	-
Signal wires		4x2.5	4x2.5
Air flow (m <sup>3</sup> /h)		1.100	1.850
Moisture removal (L/H.r)		2	4
Speeds		4	
Noise level high/low (dB (A))		44/40	47/42
<b>Other features</b>			
Dimensions HxLxW (mm)	Indoor unit	1.790x540x320	1.865x580x400
	Outdoor unit	980x790x440	1.250x950x412
Net weight indoor / outdoor unit (Kg)		52/65	65/112
Refrigerant line		1/4"	1/2"
Gas line		5/8"	3/4"
Refrigerant		R410A / 1.950g	R410A / 4.000g



U-MATCH



NEW MODELS

- R410A environmental friendly refrigerant
- Quiet operation
- LCD wired and wireless remote control
- Auto restart
- 24-hour programming
- Auto swing louver
- Outdoor operating temperature from -14°C to +52°C
- Low power consumption
- High/low pressure switch, phase protector and overload protection
- Sensors for high and low pressure protection
- Auto error diagnosis



- Heavy gauge galvanized steel with corrosion resistant electrostatic paint and blue fin coil
- Indoor room sensor at the air intake of the indoor unit and inside the controller (user can select one of the two indoor sensors)
- Centralized control; up to 16 modules with weekly timer (optional)
- Outdoor temperature indication
- After power failure the unit restarts in the conditions that the user has selected
- Energy saving feature
- Ideal indoor environment with auto mode function
- Hitachi rotary compressor (ULS-12, ULS-18, ULS-24)
- Daikin scroll compressor (ULT-50)

TECHNICAL SPECIFICATIONS

MODEL (indoor + outdoor)		IKI-12+ULS-12	IKI-18+ULS-18	IKI-24+ULS-24	IKI-50+ULT-50
Cooling capacity	Btu/h	12.795	18.476	25.167	48.532
	Watt	3.750	5.415	7.376	14.224
Heating capacity	Btu/h	12.392	21.438	27.709	57.823
	Watt	3.632	6.283	8.121	16.947
<b>Electrical Data</b>					
Voltage/Frequency/Phase (V/Hz/Ph)		230/50/1	230/50/1	230/50/1	380/50/3
Power input cooling / heating (W)		1133/1.068	1.969/2.014	2.663/2.431	5.249/5.105
Rated current cooling / heating (A)		5.4/5.05	9.3/9.5	11.8/11.7	11.0 / 10.5
<b>Outdoor unit</b>					
Power supply wires (Noxmm <sup>2</sup> ) / Fuses (A)		3x2.5/1x16**	3x2.5/1x16**	3x2.5/1x16**	5x4/3x20**
EER (W/W)		3.31	2.75	2.77	2.71
COP (W/W)		3.4	3.12	3.34	3.32
Noise level (dB (A))		56	56	59	63
<b>Indoor unit</b>					
Power supply wires (Noxmm <sup>2</sup> ) / Fuses (A)		3x1.5	3x1.5	3x1.5	3x1.5
Signal wires		2x1*	2x1*	2x1*	2x1*
Air flow (m <sup>3</sup> /h)		550	700	1170	2100
Moisture removal (L/H.r)		1.3	1.9	2.7	4.0
Speeds		3			
Noise level high/low (dB (A))		46 / 41	50 / 46	50 / 46	58.52
<b>Other features</b>					
Dimensions HxLxW (mm)	Indoor unit	695x836x238	695x836x238	600x1.300x188	695x1.590x238
	Outdoor unit	540x848x320	540x848x320	700x1.018x412	1.250x950x412
Net weight indoor / outdoor unit (Kg)		27 / 32	27 / 40	32 / 59	42 / 112
Refrigerant line		1/4"	1/4"	3/8"	1/2"
Gas line		1/2"	1/2"	5/8"	3/4"
Refrigerant		R410A / 1.000g	R410A / 1.500g	R410A / 2.200g	R410A / 3.800g

(\*) standed wire

(\*\*) 15m wire length





## FLOOR-CEILING UNITS

DC INVERTER

U-MATCH



### WIRED AND WIRELESS CONTROLLER

- 24-hour programming
- Sleep mode
- Defrost status display
- Auto error diagnosis
- Outdoor temperature indication
- Energy saving feature
- Regulation of fresh air status (optional)

- Energy class A/A (VKI-26+URS-24, VKI-45+ URS-45)
- VKI-50+URT-50, soon with energy class A/A
- Advanced DC Inverter technology for high efficiency in extreme outdoor conditions
- R410A environmental friendly refrigerant
- Advanced DC Inverter technology: automatic control of cooling or heating according to indoor temperature resulting in maximum performance with minimum energy consumption
- Mitsubishi DC Inverter Scroll compressor
- Elegant design
- Ultra low noise level
- Centralized control; up to 16 modules with weekly timer (optional)
- Auto restart
- 24-hour programming
- Auto swing louver
- High/low pressure switch, phase protector and overload protection
- Sensors for high and low pressure protection
- Steady operation in extreme outdoor conditions without efficiency loss
- Heavy gauge galvanized steel with corrosion resistant electrostatic paint and blue fin coil
- Low energy consumption

### TECHNICAL SPECIFICATIONS

MODEL (indoor + outdoor)		VKI-26+URS-24	VKI-45+URS-45	VKI-50+URT-50
Cooling capacity	Btu/h	6.824 - 24.000	11.942 - 42.000	18.766 - 48.000
	Watt	2.000 - 7.034	3.500 - 12.309	5.500 - 14.068
Heating capacity	Btu/h	6.824 - 28.000	11.942 - 50.000	17.060 - 56.000
	Watt	2.000 - 8.206	3.500 - 14.654	5.000 - 16.413
<b>Electrical Data</b>				
Voltage/Frequency/Phase (V/Hz/Ph)		230/50/1	230/50/1	380/50/3
Power input cooling / heating (W)		2.158 / 2.148	3.823/4.059	5.700 / 4.600
Rated current cooling / heating (A)		11.2 / 11.9	24.7 / 24.8	10.6 / 9.9
<b>Outdoor unit</b>				
Power supply wires (Noxmm <sup>2</sup> ) / Fuses (A)		3x2.5 / 1x20	3x6 / 1x32	5x2.5 / 3x20
EER (W/W)		3.26	3.22	2.47
COP (W/W)		3.82	3.61	3.57
Noise level (dB (A))		59	63	63
<b>Indoor unit</b>				
Power supply wires (Noxmm <sup>2</sup> ) / Fuses (A)		3x2.5 / 1x16	3x2.5 / 1x16	3x2.5 / 1x16
Signal wires		2x1*	2x1*	2x1*
Air flow (m <sup>3</sup> /h)		1170	2.200	2.300
Moisture removal (L/H.r)		1.6	4.4	5.2
Speeds			3	
Noise level high/low (dB (A))		50	49	58
<b>Other features</b>				
Dimensions HxLxW (mm)	Indoor unit	600x1.300x188	695x1.590x238	695x1.590x238
	Outdoor unit	685x846x300	1.250x950x412	1.250x950x412
Net weight indoor / outdoor unit (Kg)		32 / 59	42 / 128	42 / 128
Refrigerant line		3/8"	1/2"	1/2"
Gas line		5/8"	3/4"	3/4"
Refrigerant		R410A / 2.000g	R410A / 4.000g	R410A / 4.000g

(\*) stranded wire





**U-MATCH**

**NEW MODELS**



**ULS  
ULT**

- R410A environmental friendly refrigerant
- Low height; from 23 to 32cm
- Overflow pump indicator
- Auto swing louver
- 4-way airflow
- 24-hour programming
- Auto restart
- Easy removable and washable panel
- Quiet operation
- Outdoor operating temperature from -14°C to +52°C
- High/low pressure switch, phase protector and overload protection
- Sensors for high and low pressure protection
- Heavy gauge galvanized steel with corrosion resistant electrostatic paint and blue fin coil

- LCD wired and wireless remote control
- Self-error diagnosis
- Indoor room sensor at the air intake of the indoor unit and inside the controller (user can select one of the two indoor sensors)
- Centralized control; up to 16 modules with weekly timer (optional)
- Wired controller with weekly timer (optional)
- Outdoor temperature indication
- After power failure the unit restarts in the conditions that the user has selected
- Ideal indoor environment with auto mode function
- Hitachi rotary compressor (ULS-18, ULS-24)
- Sanyo scroll compressor (ULS-36, ULT-36)
- Daikin scroll compressor (ULT-50)

**TECHNICAL SPECIFICATIONS**

<b>MODEL (indoor + outdoor)</b>		<b>ICI-18+ULS-18</b>	<b>ICI-24+ULS-24</b>	<b>ICI-36+ULS-36</b>	<b>ICI-36+ULT-36</b>	<b>ICI-50+ULT-50</b>
Cooling capacity	Btu/h	17.558	23.744	34.782	34.714	49.051
	Watt	5.146	6.959	10.194	10.174	14.376
Heating capacity	Btu/h	18.827	26.071	39.702	40.094	56.916
	Watt	5.518	7.641	11.636	11.751	16.681
<b>Electrical Data</b>						
Voltage/Frequency/Phase (V/Hz/Ph)		230/50/1	230/50/1	230/50/1	380/50/3	380/50/3
Power input cooling / heating (W)		1.913/1.845	2.503/2.254	3.982/3.537	3.582/3.150	5.098/5.398
Rated current cooling / heating (A)		9/8.7	11.9/11.4	20/18	6.7/5.7	10.5/11.3
<b>Outdoor unit</b>						
Power supply wires (Noxmm <sup>2</sup> ) / Fuses (A)		3x2.5/1x16**	3x2.5/1x16**	3x6/1x32**	5X4/3X20**	5x4/3x20**
EER (W/W)		2.69	2.78	2.56	2.84	2.82
COP (W/W)		2.99	3.39	3.29	3.73	3.09
Noise level (dB (A))		56	59	60	60	63
<b>Indoor unit</b>						
Power supply wires (Noxmm <sup>2</sup> )		3x1.5	3x1.5	3x1.5	3x1.5	3x1.5
Signal wires		2x1*	2x1*	2x1*	2x1*	2x1*
Air flow (m <sup>3</sup> /h)		600	1180	1600	1600	1700
Moisture removal (L/H.r)		1.9	2.7	2.9	2.9	4
Speeds		3				
Noise level high/low (dB (A))		47/43	47/43	53/48	53/48	53/48
<b>Other features</b>						
Dimensions HxLxW (mm)	Panel	50x650x650	60x950x950	60x950x950	60x950x950	60x950x950
	Indoor unit	230x600x600	260x840x840	320x840x840	320x840x840	320x840x840
	Outdoor unit	848x540x320	1.018x700x412	1.018x840x412	1.018x840x412	1.250x950x412
Net weight indoor / outdoor unit (Kg)		20/40	30/59	38/90	38/90	38/112
Refrigerant line		1/4"	3/8"	1/2"	1/2"	1/2"
Gas line		1/2"	5/8"	3/4"	3/4"	3/4"
Refrigerant		<b>R410A</b> / 1500g	<b>R410A</b> / 2.200g	<b>R410A</b> / 3.200g	<b>R410A</b> / 3.200g	<b>R410A</b> / 3.800g

(\*) stranded wire  
(\*\*) 15m wire length







## 4-WAY CEILING CASSETTE UNITS

DC INVERTER



### WIRED AND WIRELESS CONTROLLER

- 24-hour programming
- Sleep mode
- Defrost status display
- Auto error diagnosis
- Outdoor temperature display
- Energy saving feature
- Regulation of fresh air status (optional)



- Energy class A/A (VCI-26+URS-24, VCI-45+ URS-45)
- VCI-50+URT-50, soon with energy class A/A
- Advanced DC Inverter technology for high efficiency in extreme outdoor conditions
- R410A environmental friendly refrigerant
- Advanced DC Inverter technology: automatic control of cooling or heating according to indoor temperature resulting in maximum performance with minimum energy consumption
- Mitsubishi DC Inverter Scroll compressor
- Centralized control; up to 16 modules with weekly timer (optional)
- Low height; from 23 to 32cm
- Overflow pump indicator
- Auto swing louver
- 4-way airflow
- Auto restart
- Fresh air valve (optional)
- Easy removable and washable panel
- Ultra low noise level
- Low energy consumption
- Steady operation in extreme outdoor conditions without efficiency loss
- High/low pressure switch, phase protector and overload protection
- Sensors for high and low pressure protection
- Heavy gauge galvanized steel with corrosion resistant electrostatic paint and blue fin coil

### TECHNICAL SPECIFICATIONS

MODEL (indoor + outdoor)		VCI-26+URS-24	VCI-45+URS-45	VCI-50+URT-50
Cooling capacity	Btu/h	6.824 - 24.000	11.942 - 42.000	18.766 - 48.000
	Watt	2.000 - 7.034	3.500 - 12.309	5.500 - 14.068
Heating capacity	Btu/h	6.824 - 28.000	11.942 - 50.000	17.060 - 56.000
	Watt	2.000 - 8.206	3.500 - 14.654	5.000 - 16.413
<b>Electrical Data</b>				
Voltage/Frequency/Phase (V/Hz/Ph)		230/50/1	230/50/1	380/50/3
Power input cooling / heating (W)		2.191/2.057	3.832/4.059	5.700 / 4.600
Rated current cooling / heating (A)		11.2 / 11.9	24.7 / 24.8	10.6 / 9.9
<b>Outdoor unit</b>				
Power supply wires (Noxmm <sup>2</sup> ) / Fuses (A)		3x2.5 / 1x20	3x6 / 1x32	5x2.5 / 3x20
EER (W/W)		3.21	3.22	2.47
COP (W/W)		3.99	3.61	3.57
Noise level (dB (A))		59	63	63
<b>Indoor unit</b>				
Power supply wires (Noxmm <sup>2</sup> ) / Fuses (A)		3x2.5 / 1x16	3x2.5 / 1x16	3x2.5 / 1x16
Signal wires		2x1*	2x1*	2x1*
Air flow (m <sup>3</sup> /h)		1.180	1.860	2.000
Moisture removal (L/H.r)		4.0	4.4	5.4
Speeds		3		
Noise level high/low (dB (A))		47	53	55
<b>Other features</b>				
Dimensions HxLxW (mm)	Panel	60x950x950	60x950x950	60x950x950
	Indoor unit	240x840x840	320x840x840	320x840x840
	Outdoor unit	685x846x300	1.250x950x412	1.250x950x412
Net weight indoor / outdoor unit (Kg)		30 / 59	38 / 128	38 / 128
Refrigerant line		3/8"	1/2"	1/2"
Gas line		5/8"	3/4"	3/4"
Refrigerant		R410A / 2.000g	R410A / 4.000g	R410A / 4.000g

(\*) stranded wire



DUCTED SPLIT SYSTEMS



R410A



IDI

VDI



R407C



NDI



ULS  
ULT



DUCTED SPLIT SYSTEMS



R410A



B5BX



T4BX



TSX6I

R407C



HTBI-100

R410A



HTBI-120



H2TBO-100



HTBO





**B5BX INDOOR UNITS**

- Suitable for connection to flexible and metallic ducts
- Durable attractive cabinet
- Multi positioned: horizontal, vertical, up flow, down flow
- 3 speed operation- flexibility of installation
- High static pressure 150 Pa and high air flow
- Emerson motor
- Fully accessible for maintenance
- Plug-in electric heater kits (5-15KW)
- Ability to use with water coil



TSX61

**T4BX OUTDOOR UNITS**

- R410A environmental friendly refrigerant
- Heavy gauge galvanized steel with corrosion resistant electrostatic paint
- Emerson motor
- Copeland Scroll compressor
- High pressure switch
- Liquid line filter drier
- Adjustable time defrost operation
- Five minutes time restart delay
- Guaranteed operation in cooling mode in low outdoor temperatures (-10°C) by using low ambient kit
- Maximum refrigerant line installation up to 54m (horizontal or vertical)



B5BX



T4BX

**MADE IN USA**

TECHNICAL SPECIFICATIONS

MODEL (outdoor unit)		TSX61	T4BX60
Cooling capacity	Btu/h	54.000	54.000
	Watt	15.826	15.826
Heating capacity	Btu/h	55.000	54.000
	Watt	16.119	15.826
Voltage/Frequency/Phase (V/Hz/Ph)		380/50/3	380/50/3
Power input cooling / heating (W)		6.850 / 5.000	6.850 / 5.000
Rated current cooling / heating (A)		10.6	11.7
Power supply wires (Noxmm <sup>2</sup> ) / Fuses (A)		5x4 / 3x25	5x4 / 3x25
EER (W/W)		2.31	2.31
COP (W/W)		3.22	3.16
Air flow (m <sup>3</sup> /h/cfm)		6120 / 3.600	5.440 / 3.200
Noise level (dB(A))		61	65
Dimensions HxLxW (mm)		1.230x930x380	678x775x775
Net weight (Kg)		110	92
Refrigerant line		3/8"	3/8"
Gas line		7/8"	7/8"
Refrigerant		R410A / 4.200g	R410A / 3.300g
MODEL (indoor unit)		B5BX60	B5BX60
Air flow	m <sup>3</sup> /h	3.740/3.366/2.924	3.740/3.366/2.924
	high / medium / low	cfm	2.200/1.980/1.720
Net static pressure (Pa)		150	150
Fan		10x8-1/2HP	10x8-1/2HP
Voltage/Frequency/Phase (V/Hz/Ph)		220/50/1	220/50/1
Power supply wires (Noxmm <sup>2</sup> ) / Fuses (A)		3x1.5 / 1x10	3x1.5 / 1x10
Signal wires		6x1.5	6x1.5
Noise level (dB(A))		50	50
Dimensions HxLxW (mm)		1.257x502x559	1.257x502x559
Filter dimensions (mm)		457.2x508x25.4	457.2x508x25.4
Net weight (Kg)		66	66

(\*) Τα μοντέλα που κατασκευάζονται στην Αμερική είναι τα T3BX και B5BX





R410A

**IDI**

- Compact size for easy installation above fake ceiling (indoor's height from 27cm up to 33cm)
- High static pressure (150Pa)
- Fresh air valve can be defined from the wire-controller (optional)
- Indoor room sensor at the air intake of the indoor unit and inside the controller (user can select one of the two indoor sensors)
- Condensate pump included with maximum height 1,10m
- Maximum refrigerant pipe length is 50m horizontal and 30m vertical



R407C

**NDI-60**

- Compact size for easy installation above fake ceiling (indoor's height 37cm )
- High static pressure (120Pa)
- High or normal static pressure can be selected by the installer
- Fresh air inlet opening on the side of indoor unit
- Return air suction on the bottom or back side of the indoor unit
- Electric heater kit 3.6kw included as standard

**WIRED AND WIRELESS REMOTE CONTROL**

- 24-hour programming \*
- Sleep mode\*
- Defrost status display\*
- Fresh air status display\*
- Auto error diagnosis\*
- Outdoor temperature display
- Energy saving display



\* Applies for ND series as well



NEW MODELS



- R410A environmental friendly refrigerant (IDI/ULS,ULT)
- R407C environmental friendly refrigerant (NDI/NDO)
- Perfect for low profile fake ceilings installations
- LCD wired control and wireless remote control
- Centralized control; up to 16 modules with weekly timer (optional)
- 4 speed operation +Auto
- Indoor fan stops operating during defrost mode
- Hot Start operation: the indoor coil sensor controls the indoor fan and prevents cold air during start up in heating mode
- Condensate drainpipe in right or left side
- High and low pressure switch, Phase reverse protector, Overload protector
- Sensors for high and low pressure protection
- Heavy gauge galvanized steel with corrosion resistant electrostatic paint and blue fin coil
- HITACHI rotary compressor (ULS-24)
- SANYO scroll compressor (ULS-36,ULT-36,ULT60)
- DAIKIN scroll compressor (ULT-50)

TECHNICAL SPECIFICATIONS

MODEL (indoor + outdoor)		NDI-60+NDO-60	IDI-24+ULS-24	IDI-36+ULS-36	IDI-36+ULT-36	IDI-50+ULT-50	IDI-60+ULT-60
Cooling capacity	Btu/h	60.000	26.034	33.956	33.738	49.559	60.000
	Watt	17.585	7.630	9.952	9.888	14.525	17.585
Heating capacity + Auxilliary heating	Btu/h	62.000 + 12.283	29.254	43.442	40.722	55.513	66.000
	Watt	18.171 + 3.600	8.574	12.732	11.935	16.270	19.344
<b>Electrical Data</b>							
Voltage/Frequency/Phase (V/Hz/Ph)		380/50/3	230/50/1	230/50/1	380/50/3	380/50/3	380/50/3
Power input cooling / heating (W)		5.900 / 6.000	2.649/2.286	4.235/3.586	3.955/3.200	5.321/4.842	6.192/4.960
Rated current cooling / heating (A)		10.5 / 10.9	12.1/11.4	22/19	7/6.3	10.5/9.8	11.8/10
PTC heater power input (W)		3.600	-	-	-	-	-
<b>Outdoor unit</b>							
Power supply wires (Noxmm <sup>2</sup> ) / Fuses (A)		5x4 / 3x25	3x2.5/1x16**	3x6/1x32**	5x4/3x20**	5x4/3x20**	5x4/3x20**
EER (W/W)		2.98	2.88	2.35	2.5	2.73	2.84
COP (W/W)		3.03	3.75	3.55	3.73	3.36	3.9
Noise level (dB (A))		64	59	60	60	63	64
<b>Indoor unit</b>							
Power supply wires (Noxmm <sup>2</sup> ) / Fuses (A)		5x2.5 / 3x16	3x1.5	3x1.5	3x1.5	3x1.5	3x1.5
Signal wires		2x1*	2x1*	2x1*	2x1*	2x1*	2x1*
Air flow (m <sup>3</sup> /h)		2.500	1.400	2.000	2.000	2.300	2.500
Net static pressure (Pa)		120	80	150	150	150	150
Speeds		3			4		
Noise level high/low (dB (A))		53 / 44	44 / 40	50/46	50/46	50/46	53 / 48
<b>Other features</b>							
Dimensions HxLxW (mm)	Indoor unit.	370x1.463x756	268x1.270x504	290x1.251x744	290x1.251x744	290x1.251x744	330x1.251x788
	Outdoor unit	1.250x950x412	700x1.018x412	1.018x840x412	1.018x840x412	1.250x950x412	1.250x950x412
Net weight indoor / outdoor unit (Kg)		95 / 123	37 / 59	57/90	57/90	57/112	66/123
Refrigerant line		1/2"	3/8"	1/2"	1/2"	1/2"	1/2"
Gas line		7/8"	5/8"	3/4"	3/4"	3/4"	3/4"
Refrigerant		R407C / 5.000g	R410A / 2.200g	R410A / 3.200g	R410A / 3.200g	R410A / 3.800g	R410A / 5.000g

(\*) stranded wire  
(\*\*) 15m wire length





## LOW PROFILE DUCTED SPLIT SYSTEMS

DC INVERTER



### WIRED AND WIRELESS CONTROLLER

- 24-hour programming
- Sleep mode
- Defrost status display
- Auto error diagnosis
- Outdoor temperature indication
- Energy saving feature
- Regulation of fresh air status (optional)

- Energy class A/A (VDI-24 + URS-24, VDI-45+ URS-45)
- VDI-50+URT-50, VDI-60+URT-60 soon with energy class A/A
- Advanced DC Inverter technology for high efficiency in extreme outdoor conditions
- R410A environmental friendly refrigerant
- Advanced DC Inverter technology: automatic control of cooling or heating according to indoor temperature resulting in maximum performance with minimum energy consumption
- Mitsubishi DC Inverter Scroll compressor
- Compact size for easy installation above fake ceiling (indoor's height from 27cm up to 33cm)
- Centralized control; up to 16 modules with weekly timer (optional)
- 3 speed operation +Auto
- High static pressure (150Pa)
- High or normal static pressure can be selected by the installer
- Indoor room sensor at the air intake of the indoor unit and inside the controller (user can select one of the two indoor sensors)
- Condensate pump included with maximum height 1,10m
- Indoor fan stops operating during defrost mode
- Hot Start operation: the indoor coil sensor controls the indoor fan and prevents cold air during start up in heating mode
- Ultra low noise level
- High and low pressure switch, Phase reverse protector, Overload protector
- Sensors for high and low pressure protection
- Heavy gauge galvanized steel with corrosion resistant electrostatic paint and blue fin coil
- Catechin Filter – eliminates house dust and 95% of microbes
- Photocatalyst filter – protects from harmful odors
- Steady operation in extreme outdoor conditions without efficiency loss
- Low energy consumption



### TECHNICAL SPECIFICATIONS

MODEL (indoor + outdoor)		VDI-24+URS-24	VDI-45+URS-45	VDI-50+URT-50	VDI-60+URT-60
Cooling capacity	Btu/h	6.824 - 24.000	11.942 - 42.000	18.766 - 48.000	16.105 - 60.000
	Watt	2.000 - 7.034	3.500 - 12.309	5.500 - 14.068	4.720 - 17.585
Heating capacity	Btu/h	6.824 - 28.000	11.942 - 50.000	17.060 - 56.000	16.105 - 62.000
	Watt	2.000 - 8.206	3.500 - 14.654	5.000 - 16.413	4.720 - 18.171
<b>Electrical Data</b>					
Voltage/Frequency/Phase (V/Hz/Ph)		230/50/1	230/50/1	380/50/3	380/50/3
Power input cooling / heating (W)		2.112/2.224	3.823/4.048	5.700/4.600	6.100/5.500
Rated current cooling / heating (A)		11.2 / 11.9	24.7 / 24.8	10.6 / 9.9	15.2 / 11.8
<b>Outdoor unit</b>					
Power supply wires (Noxmm <sup>2</sup> ) / Fuses (A)		3x2.5 / 1x20	3x6 / 1x32	5x2.5 / 3x20	5x4 / 3x25
EER (W/W)		3.33	3.22	2.47	2.88
COP (W/W)		3.69	3.62	3.57	3.40
Noise level (dB (A))		59	63	63	64
<b>Indoor unit</b>					
Power supply wires (Noxmm <sup>2</sup> ) / Fuses (A)		3x2.5 / 1x16	3x2.5 / 1x16	3x2.5 / 1x16	3x2.5 / 1x16
Signal wires		2x1*	2x1*	2x1*	2x1*
Air flow (m <sup>3</sup> /h)		1.400	2.000	2.400	2.700
Net static pressure (Pa)		80	150	150	150
Speeds		3			
Noise level (dB (A))		44	48	48	48
<b>Other features</b>					
Dimensions HxLxW (mm)	Indoor unit	268x1.270x504	290x1.251x744	290x1.251x744	330x1.251x788
	Outdoor unit	685x846x300	1.250x950x412	1.250x950x412	1.250x950x412
Net weight indoor / outdoor unit (Kg)		37 / 59	57 / 128	57 / 128	66 / 138
Refrigerant line		3/8"	1/2"	1/2"	1/2"
Gas line		5/8"	3/4"	3/4"	3/4"
Refrigerant		R410A / 2.000g	R410A / 4.000g	R410A / 4.000g	R410A / 4.300g

(\*) stranded wire



HTBO-100  
HTBO-120

H2TBO-100

HTBI-100

H2TBI-100

HTBI-120

**NEW MODELS**


- R410A environmental friendly refrigerant (HTB-120,H2TB-100)
- R407C environmental friendly refrigerant (HTB-100)
- Compact size for easy installation above fake ceiling (HTBI-100 height36cm)
- Digital wired control using touch pad and LCD display
- Wireless remote control (HTB120,H2TB-100)
- Centralized control; up to 16 modules with weekly timer (optional) (H2TB100,HTB120)
- High static pressure and big air flow (HTB100 -180Pa, HTB120-H2TB100180-250Pa)
- Belt driven indoor fan (HTBI-120,H2TBI-100)
- SANYO scroll compressor (HTB-100)
- DANFOSS scroll compressor (HTB-120, H2TB-100)
- Low power consumption
- Ultra low noise level
- Heavy gauge galvanized steel with corrosion resistant electrostatic paint
- Fan speed controller included for static pressure and air flow adjustment (HTB-100)

**TECHNICAL SPECIFICATIONS**


MODEL (indoor + outdoor)		HTBI-100+HTBO-100	H2TBI-100+H2TBO-100	HTBI-120+HTBO-120
Cooling capacity	Btu/h	86.000	83.597	110.000
	Watt	25.000	24.500	32.239
Heating capacity	Btu/h	96.500	93.834	120.000
	Watt	28.000	27.501	35.170
<b>Electrical Data</b>				
Voltage/Frequency/Phase (V/Hz/Ph)		380/50/3	380/50/1	380/50/3
Power input cooling / heating (W)		11.000 / 10.500	9.800/9.000	11.000 / 9.000
Rated current cooling / heating (A)		19 / 18.4	19.2/17.7	27 / 23
<b>Outdoor unit</b>				
EER (W/W)		2.27	2.5	2.93
COP (W/W)		2.67	3.06	3.91
Number of compressors		1	1	1
Number of fans		1	2	1
Power supply wires (Noxmm <sup>2</sup> ) / Fuses (A)		5x6 / 3x32	5x6/3x32	5x6 / 3x35
Noise level (dB (A))		56	66	67
<b>Indoor unit</b>				
Power supply wires (Noxmm <sup>2</sup> ) / Fuses (A)		-	5x2.5/3X16	5x2.5 / 3x16
Signal wires		4x2.5	2x1*	2x1*
Air flow high / medium / low (m <sup>3</sup> /h)		4.500 / 3.800 / 3.000	4.800	5.500
Number of fans		2	1	2
Net static pressure (Pa)		180	30-250	180
Speeds		3	Belt Driven	
Noise level high / medium / low (dB(A))		54 / 52 / 49	54	57
<b>Other features</b>				
Dimensions HxLxW (mm)	Indoor unit	360x1.570x840	500/1.000/1.500	500x1.500x1.000
	Outdoor unit	1.750x1.000x750	1.600/360/1150	2.000x1.162x980
Net weight indoor / outdoor unit (Kg)		92 / 161	150/185	170 / 250
Refrigerant line (mm)		12.7	3/8"	12.7
Gas line (mm)		28.58	1"	28.58
Refrigerant		<b>R407C</b> / 8.500g	<b>R410A</b> / 6.700gg	<b>R410A</b> / 9.500g

(\*) stranded wire



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from our specialized  
engineering department

### Notes

Technical data may alter without prior notice.  
Please contact your dealer.

Cooling and Heating capacities refer to the following conditions:

#### COOLING

Room temperature: 27°C DB/19°C WB  
Outdoor temperature: 35°C DB/24°C WB

#### HEATING

Room temperature: 20°C DB/15°C WB  
Outdoor temperature: 7°C DB/6°C WB



company is not responsible for any misprinted data.



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