

i-AX 18÷90



Close control unit, direct expansion air cooled with INVERTER compressor 7 - 100 kW

Unit Description

Ductable close control units air-conditioners with capacity ranging from 7 to 100 kW for vertical installation and cooling only, with optional heating by means of heating elements and hot water, optional humidifier and dehumidifier for precise temperature and humidity control. Particularly suitable for air conditioning technological, servers and IT rooms and all technological applications in general. The INVERTER compressor allows the cooling capacity modulation according to the real internal load, particularly efficient at the partial loads and optimizing the power absorbed and eliminating the start current. Units fitted with electronic expansion valve and EC INVERTER fans, upflow or downflow.

Commands

EVOLUTION

Semi-graphic display 132 x 64 pixel, Programmable software, Record storage of 100 alarms, General alarm, Automatic reset after blackout, Compressor FIFO management, Integral LAN system, Standby management, Automatic rotation, Serious alarms, Operating contemporaneousness

Versions

STD	base version with fan speed regulation for i-BRE
MOD	version with condensing fan speed regulation
LT	low outdoor temperature version with condensing fan speed regulation

Features

Unit for installing inside or outside the room to be air-conditioned.

Maximum resistance to rust thanks to galvanised sheet metal structures and panels with powder-coated paint finish. The panels are lined with sound-insulating material to limit noise levels.

The reliability and functionality of the compressor and all the other parts are guaranteed by partners who are world leaders in their sector.

NEW EC INVERTER fans with electronic commutation in order to maximize the energy saving and reducing the noise emissions.

Condensing control for maximum low noise (optional). Standard G2/G4 filtering section, F6-F8 optional, to CEN-EN 779 with average degree of separation 90.1% ASHRAE. The filter is self-extinguishing.

The microprocessor controls the compressor activation times with FIFO logic, thereby regulating the cooling capacity; it also controls the operating alarms with the possibility of interfacing to supervisor and remote-servicing systems.

Switchboard to IEC 204-1/EN60204-1

Refrigerant circuit consisting in the standard version of a electronic expansion valve, liquid solenoid valve, high/low pressure switch, sight glass liquid indicator drier filter and oil separator in order to guarantee the right lubrication of the compressor at the low speed.

Capillary Pre and After sales service.

Main accessories

- Remote user terminal
- Electric heating coil
- Water heating coil
- Humidifier
- Vibration isolation frame with rubber mountings
- Air distribution plenum
- Sound absorber plenum for air outlet
- Interface electronic board





Inverter i-AX

Models		18	29	50	70	90
Frame		F2	F3	F4	F5	F6
Power supply	V/Ph/Hz	400/3N/50	400/3N/50	400/3N/50	400/3N/50	400/3N/50
Refrigerant		R410A	R410A	R410A	R410A	R410A
N° compressors		1	1	1	2	2
PERFORMANCES						
High Speed						
Total cooling capacity	(1) kW	16,60	28,07	53,14	68,40	84,68
Sensible cooling capacity	(1) kW	16,60	28,07	50,30	67,30	84,68
SHR	(1)	1,00	1,00	0,95	0,98	1,00
Total compressors absorbed power	kW	4,09	7,14	13,92	16,47	21,03
EER		3,65	3,24	3,12	3,25	3,12
Low speed						
Total cooling capacity	(1) kW	6,27	10,62	23,68	22,06	22,70
Sensible cooling capacity	(1) kW	6,27	10,62	23,68	22,06	22,70
SHR	(1)	1,00	1,00	1,00	1,00	1,00
Total compressors absorbed power	kW	1,24	1,96	4,85	4,82	4,83
Booster (not continuative functioning)						
Total cooling capacity	(1) kW	20,42	34,77	56,52	85,31	93,47
Sensible cooling capacity	(1) kW	18,44	31,10	51,30	74,60	89,77
SHR	(1)	0,90	0,89	0,91	0,87	0,96
Total compressors absorbed power	kW	5,66	8,00	15,24	22,49	24,49
VENTILATION						
Nominal air flow volume	mc/h	4900	8000	13500	19000	25000
Fan absorbed power	kW	0,47	1,51	3,13	4,57	6,1
Sound pressure level	(2) dB(A)	53	60	64	67	67
HUMIDIFIER						
Capacity	kg/h	5	5	5	8	8
Absorbed power	kW	3,75	3,75	3,75	6	6
ELECTRICAL HEATERS						
Steps		3	3	3	3	3
Absorbed power	kW	8	9	15	18	18
DIMENSIONS						
L	mm	1000	1000	1550	2100	2650
P	mm	500	790	790	790	790
H	mm	1980	1980	1980	1980	1980

NOTE

- (1) Indoor conditions: 24°C-50% Condensing temp. 45°C - ESP 20Pa
 (2) Measured at 1,5 m height, 2 m in front of the unit in free field



i-AW 18÷90



Close control unit, direct expansion water cooled with INVERTER compressor 7 - 100 kW

Unit Description

Ductable close control units air-conditioners with capacity ranging from 7 to 100 kW for vertical installation and cooling only, with optional heating by means of heating elements and hot water, optional humidifier and dehumidifier for precise temperature and humidity control. Particularly suitable for air conditioning technological, servers and IT rooms and all technological applications in general. The INVERTER compressor allows the cooling capacity modulation according to the real internal load, particularly efficient at the partial loads and optimizing the power absorbed and eliminating the start current. Units fitted with electronic expansion valve and EC INVERTER fans, upflow or downflow.

Commands

EVOLUTION

Semi-graphic display 132 x 64 pixel, Programmable software, Record storage of 100 alarms, General alarm, Automatic reset after blackout, Compressor FIFO management, Integral LAN system, Standby management, Automatic rotation, Serious alarms, Operating contemporaneousness

Versions

STD base version with fan speed regulation for i-BDC

MOD_A version with condensing fan speed regulation

MOD_B version with condensing pressostatic regulation

Features

Unit for installing inside or outside the room to be air-conditioned.

Maximum resistance to rust thanks to galvanised sheet metal structures and panels with powder-coated paint finish. The panels are lined with sound-insulating material to limit noise levels.

The reliability and functionality of the compressor and all the other parts are guaranteed by partners who are world leaders in their sector.

NEW EC INVERTER fans with electronic commutation in order to maximize the energy saving and reducing the noise emissions.

Condensing control for maximum low noise (optional). Standard G2/G4 filtering section, F6-F8 optional, to CEN-EN 779 with average degree of separation 90.1% ASHRAE. The filter is self-extinguishing.

The microprocessor controls the compressor activation times with FIFO logic, thereby regulating the cooling capacity; it also controls the operating alarms with the possibility of interfacing to supervisor and remote-servicing systems.

Switchboard to IEC 204-1/EN60204-1

Refrigerant circuit consisting in the standard version of a electronic expansion valve, liquid solenoid valve, high/low pressure switch, sight glass liquid indicator drier filter and oil separator in order to guarantee the right lubrication of the compressor at the low speed.

Capillary Pre and After sales service.

Main accessories

- Remote user terminal
- Electric heating coil
- Water heating coil
- Humidifier
- Vibration isolation frame with rubber mountings
- Air distribution plenum
- Sound absorber plenum for air outlet
- Special filter plenum for air outlet
- Interface electronic board





Inverter i-AW

Models		18	29	50	70	90
Frame		F2	F3	F4	F5	F6
Power supply	V/Ph/Hz	400/3N/50	400/3N/50	400/3N/50	400/3N/50	400/3N/50
Refrigerant		R410A	R410A	R410A	R410A	R410A
N° compressors		1	1	1	2	2
PERFORMANCES						
High Speed						
Total cooling capacity	(1) kW	17,35	29,32	55,00	72,25	91,52
Sensible cooling capacity	(1) kW	17,04	28,60	50,80	69,48	89,80
SHR	(1)	0,98	0,98	0,92	0,96	0,98
Total compressors absorbed power	kW	3,68	6,38	13,02	14,47	19,64
EER		4,18	3,71	3,40	3,80	3,56
Low speed						
Total cooling capacity	(1) kW	7,27	12,33	25,67	23,61	25,36
Sensible cooling capacity	(1) kW	7,27	12,33	25,67	23,61	25,36
SHR	(1)	1,00	1,00	1,00	1,00	1,00
Total compressors absorbed power	kW	0,96	1,43	3,83	3,99	3,92
Booster (not continuative functioning)						
Total cooling capacity	(1) kW	21,69	35,30	58,07	88,03	100,09
Sensible cooling capacity	(1) kW	18,96	31,10	52,00	75,90	93,10
SHR	(1)	0,87	0,88	0,90	0,86	0,93
Total compressors absorbed power	kW	4,97	7,83	14,46	21,00	23,64
VENTILATION						
Nominal air flow volume	mc/h	4900	8000	13500	19000	25000
Fan absorbed power	kW	0,47	1,51	3,13	4,57	6,1
Sound pressure level	(2) dB(A)	53	60	64	67	67
HUMIDIFIER						
Capacity	kg/h	5	5	5	8	8
Absorbed power	kW	3,75	3,75	3,75	6	6
ELECTRICAL HEATERS						
Steps		3	3	3	3	3
Absorbed power	kW	8	9	15	18	18
DIMENSIONS						
L	mm	1000	1000	1550	2100	2650
P	mm	500	790	790	790	790
H	mm	1980	1980	1980	1980	1980

NOTE

- (1) Indoor conditions :24°C-50% Water 30- 35°C - ESP 20Pa
 (2) Measured at 1,5 m height, 2 m in front of the unit in free field



AX 07÷90



Close control unit, air cooled, direct expansion 7 - 90 kW

Unit Description

Ductable close control air-conditioners with capacities ranging from 7 to 90 kW for vertical installation and cooling only, with optional heating by means of heating element or hot water, optional humidifier and dehumidifier for precise temperature and humidity control. Particularly suitable for air-conditioning technological, server and CED rooms and all technological applications in general. Units fitted with centrifugal fans with upward airflow from the top or from the bottom. External air condenser. Power supply 400V/3+N/50Hz (all models).

Commands

EVOLUTION

Semi-graphic display 132 x 64 pixel, Programmable software, Record storage of 100 alarms, General alarm, Automatic reset after blackout, Compressor FIFO management, Integral LAN system, Standby management, Automatic rotation, Serious alarms, Operating contemporaneusness

Versions

STD	base version
LT	low outdoor temperature version with condensing fan speed regulation
MOD	version with condensing fan speed regulation

Features

Unit for installing inside or outside the room to be air-conditioned.

Maximum resistance to rust thanks to galvanised sheet metal structures and panels with powder-coated paint finish. The panels are lined with sound-insulating material to limit noise levels.

The reliability and functionality of the compressor and all the other parts are guaranteed by partners who are world leaders in their sector.

Double-inlet centrifugal fan per standard installed, directly coupled and suspended on vibration-isolation mountings.

The fans are of the forward-bladed type for maximum efficiency and low noise. Available as option, EC INVERTER fans with electronic commutation, Backward Curved Fan type to minimize energy consumption and noise emission.

Condensing control for maximum low noise (optional).

Standard G2/G4 filtering section, F6-F8 optional, to CEN-EN 779 with average degree of separation 90.1% ASHRAE. The filter is self-extinguishing.

The microprocessor controls the compressor activation times with FIFO logic, thereby regulating the cooling capacity; it also controls the operating alarms with the possibility of interfacing to supervisor and remote-servicing systems.

Switchboard to IEC 204-1/EN60204-1

Refrigerant circuit consisting in the standard version of a thermostatic valve with external equalization (electronic expansion valve available as option), liquid solenoid valve, high/low pressure switch, sight glass liquid indicator and drier filter.

Capillary Pre and After sales service.

Main accessories

- Remote user terminal
- Electric heating coil
- Water heating coil
- Humidifier
- Vibration isolation frame with rubber mountings
- Air distribution plenum
- Sound absorber plenum for air outlet
- Interface electronic board
- Electronic Thermostatic valve





ACCURATE AX / STD

Models		07	10	15	18	20	26	29	39
Electrical power supply	V-Ph-Hz	400/3+N/50							
COOLING PERFORMANCES									
Total cooling capacity	(1) kW	7,20	9,60	16,3	19,1	23,3	28,9	31,8	41
Sensible cooling capacity	(1) kW	7,20	9,20	16,3	18,2	23,3	28,8	29,9	41
SHR		1	0,96	1	0,95	1	1	0,94	1
COMPRESSORS									
Quantity	n°	1	1	1	1	1	1	1	1
Power absorbed	kW	1,69	2,20	3,64	4,31	4,93	6	6,93	7,86
N° Circuits	n°	1	1	1	1	1	1	1	1
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
FANS									
Fan air flow	m³/h	2500	2500	4900	4900	6500	8000	8000	13500
N° Centrifugal fans	n°	1	1	2	2	1	1	1	2
N° EC Inverter fans	n°	1	1	2	2	1	1	1	2
Centrifugal fans power abs.	kW	0,49	0,49	1	1	1,66	2,02	2,02	3,61
EC Inverter fans power abs.	kW	0,27	0,27	0,53	0,53	0,89	1,69	1,69	3,51
ESP std.	Pa	20	20	20	20	20	20	20	20
Sound pressure level	(2) dB(A)	50	50	53	53	56	60	60	64
AIR FILTER									
Degree filtration		G2	G2	G2	G2	G4	G4	G4	G4
HUMIDIFIER									
Capacity	kg/h	3	3	5	5	5	5	5	5
Power absorbed	kW	2,25	2,25	3,75	3,75	3,75	3,75	3,75	3,75
ELECTRICAL HEATERS									
Steps	n°	3	3	3	3	3	3	3	3
Power absorbed	kW	4	4	8	8	9	9	9	15
DIMENSION									
L	mm	600	600	1000	1000	1000	1000	1000	1550
P	mm	500	500	500	500	790	790	790	790
H	mm	1980	1980	1980	1980	1980	1980	1980	1980
COUPLING EXTERNAL UNIT									
BRE STD/LT/LN		014m	014m	022m	027m	027m	044m	044m	051m

Models		30	40	50	55	60	70	80	90
Electrical power supply	V-Ph-Hz	400/3+N/50							
COOLING PERFORMANCES									
Total cooling capacity	(1) kW	33,4	46,2	52,3	60,3	68,1	73,2	87,8	95,4
Sensible cooling capacity	(1) kW	33,4	46,2	49,9	60,3	68,1	70,1	87,8	91,8
SHR		1	1	0,95	1	1	0,96	1	0,96
COMPRESSORS									
Quantity	n°	2	2	2	2	2	2	2	2
Power absorbed	kW	7,26	9,85	12	12	13,9	15,7	17,7	21,3
N° Circuits	n°	2	2	2	2	2	2	2	2
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
FANS									
Fan air flow	m³/h	10500	13500	13500	19000	19000	19000	25000	25000
N° Centrifugal fans	n°	2	2	2	2	2	2	-	-
N° EC Inverter fans	n°	2	2	2	3	3	3	4	4
Centrifugal fans power abs.	kW	2,89	3,61	3,61	6,55	6,55	6,55	-	-
EC Inverter fans power abs.	kW	2,09	3,51	3,51	5,11	5,11	5,11	6,82	6,82
ESP std.	Pa	20	20	20	20	20	20	20	20
Sound pressure level	(2) dB(A)	59	64	64	67	67	67	67	67
AIR FILTER									
Degree filtration		G4	G4	G4	G4	G4	G4	G4	G4
HUMIDIFIER									
Capacity	kg/h	5	5	5	8	8	8	8	8
Power absorbed	kW	3,75	3,75	3,75	6	6	6	6	6
ELECTRICAL HEATERS									
Steps	n°	3	3	3	3	3	3	3	3
Power absorbed	kW	15	15	15	18	18	18	18	18
DIMENSION									
L	mm	1550	1550	1550	2100	2100	2100	2650	2650
P	mm	790	790	790	790	790	790	790	790
H	mm	1980	1980	1980	1980	1980	1980	1980	1980
COUPLING EXTERNAL UNIT									
BRE STD/LT/LN		054b	054b	065b	065b	076b	100b	100b	116b

NOTE

(1) Indoor air: 24°C/50% r.h.; Condensing temp.: 45°C

(2) Measured at 1,5 m high and 2 m front unit, in open field conditions



Close control unit, water cooled direct expansion 07 - 90 kW

Unit Description

Ducted close-control air-conditioners with capacities ranging from 7 to 90 kW for vertical installation and cooling only, with optional reheating by means of heating element or hot water, optional humidifier and dehumidifier for precise temperature and humidity control. Particularly suitable for air-conditioning technological, server and CED rooms and all technological applications in general. Units fitted with centrifugal fans with upward airflow from the top and from the bottom and incorporated water-cooled condenser. External Dry Cooler. Power supply 400V/3+N/50Hz (for all units).

Commands

EVOLUTION

Semi-graphic display 132 x 64 pixel, Programmable software, Record storage of 100 alarms, General alarm, Automatic reset after blackout, Compressor FIFO management, Integral LAN system, Standby management, Automatic rotation, Serious alarms, Operating contemporaneousness

Versions

STD base version
 MOD_A version with condensing fan speed regulation
 MOD_B version with condensing pressostatic regulation

Features

Unit for installing inside or outside the room to be air-conditioned.

Maximum resistance to rust thanks to galvanised sheet metal structures and panels with powder-coated paint finish.

The panels are lined with sound-insulating material to limit noise levels. The reliability and functionality of the compressor and all the other parts are guaranteed by partners who are world leaders in their sector.

Double-inlet centrifugal fan per standard installed, directly coupled and suspended on vibration-isolation mountings.

The fans are of the forward-bladed type for maximum efficiency and low noise. Available as option, EC INVERTER fans with electronic commutation, Backward Curved Fan type to minimize energy consumption and noise emission.

Condensing control for maximum low noise (optional).

Standard G2/G4 filtering section, F6-F8 optional, to CEN-EN 779 with average degree of separation 90.1% ASHRAE. The filter is self-extinguishing.

The microprocessor controls the compressor activation times with FIFO logic, thereby regulating the cooling capacity; it also controls the operating alarms with the possibility of interfacing to supervisor and remote-servicing systems.

Refrigerant circuit consisting in the standard version of a thermostatic valve with external equalization (electronic expansion valve available as option), liquid solenoid valve, high/low pressure switch, sight glass liquid indicator and drier filter.

Switchboard to IEC 204-1/EN60204-1

Capillary Pre and After sales service.

Main accessories

- Remote user terminal
- Electric heating coil
- Water heating coil
- Humidifier
- Vibration isolation frame with rubber mountings
- Air distribution plenum
- Sound absorber plenum for air outlet
- Interface electronic board
- Electronic Thermostatic valve





ACCURATE AW / STD

Models		07	10	15	18	20	26	29	39
Electrical power supply	V-Ph-Hz	400/3+N/50							
COOLING PERFORMANCES									
Total cooling capacity	(1) kW	7,50	9,80	16,9	19,8	24,5	29,2	33	43
Sensible cooling capacity	(1) kW	7,50	9,30	16,9	18,3	23,8	28,3	29,9	43
SHR		1	0,95	1	0,92	0,97	0,97	0,91	1
COMPRESSORS									
Quantity	n°	1	1	1	1	1	1	1	1
Power absorbed	kW	1,47	1,91	3,26	3,93	4,28	5,38	6,24	6,91
N° Circuits	n°	1	1	1	1	1	1	1	1
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
FANS									
Fan air flow	m³/h	2500	2500	4900	4900	6500	8000	8000	13500
N° Centrifugal fans	n°	1	1	2	2	1	1	1	2
N° EC Inverter fans	n°	1	1	2	2	1	1	1	2
Centrifugal fans power abs.	kW	0,49	0,49	1	1	1,66	2,02	2,02	3,61
EC Inverter fans power abs.	kW	0,27	0,27	0,53	0,53	0,89	1,69	1,69	3,51
ESP std.	Pa	20	20	20	20	20	20	20	20
Sound pressure level	(2) dB(A)	50	50	53	53	56	60	60	64
AIR FILTER									
Degree filtration		G2	G2	G2	G2	G4	G4	G4	G4
HUMIDIFIER									
Capacity	kg/h	3	3	5	5	5	5	5	5
Power absorbed	kW	2,25	2,25	3,75	3,75	3,75	3,75	3,75	3,75
ELECTRICAL HEATERS									
Steps	n°	3	3	3	3	3	3	3	3
Power absorbed	kW	4	4	8	8	9	9	9	15
PLATE CONDENSER									
Water flow rate	(1) l/h	1520	2050	3390	4020	4820	5930	6730	8360
Pressure drop	(1) kPa	8	14	5,7	23	30	27	24	30
DIMENSION									
L	mm	600	600	1000	1000	1000	1000	1000	1550
P	mm	500	500	500	500	790	790	790	790
H	mm	1980	1980	1980	1980	1980	1980	1980	1980
COUPLING EXTERNAL UNIT									
BDC STD/LT/LN		013m	013m	030m	030m	030m	039m	039m	052m

Models		30	40	50	55	60	70	80	90
Electrical power supply	V-Ph-Hz	400/3+N/50							
COOLING PERFORMANCES									
Total cooling capacity	(1) kW	34,8	48,5	54,5	62,6	70,8	77,4	90,6	99,3
Sensible cooling capacity	(1) kW	34,8	48,4	49,9	62,6	69,1	71,1	90	92,8
SHR		1	1	0,92	1	0,98	0,92	0,99	0,93
COMPRESSORS									
Quantity	n°	2	2	2	2	2	2	2	2
Power absorbed	kW	6,42	8,53	10,8	10,8	12,4	13,5	15,9	19,2
N° Circuits	n°	2	2	2	2	2	2	2	2
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
FANS									
Fan air flow	m³/h	10500	13500	13500	19000	19000	19000	25000	25000
N° Centrifugal fans	n°	2	2	2	2	2	2	-	-
N° EC Inverter fans	n°	2	2	2	3	3	3	4	4
Centrifugal fans power abs.	kW	2,89	3,61	3,61	6,55	6,55	6,55	-	-
EC Inverter fans power abs.	kW	2,09	3,51	3,51	5,11	5,11	5,11	6,82	6,82
ESP std.	Pa	20	20	20	20	20	20	20	20
Sound pressure level	(2) dB(A)	59	64	64	67	67	67	67	67
AIR FILTER									
Degree filtration		G4	G4	G4	G4	G4	G4	G4	G4
HUMIDIFIER									
Capacity	kg/h	5	5	5	8	8	8	8	8
Power absorbed	kW	3,75	3,75	3,75	6	6	6	6	6
ELECTRICAL HEATERS									
Steps	n°	3	3	3	3	3	3	3	3
Power absorbed	kW	15	15	15	18	18	18	18	18
PLATE CONDENSER									
Water flow rate	(1) l/h	3460x2	4780x2	5715x2	6155x2	6975x2	7705x2	17850	20160
Pressure drop	(1) kPa		21	30	33	30	26	31	39
DIMENSION									
L	mm	1550	1550	1550	2100	2100	2100	2650	2650
P	mm	790	790	790	790	790	790	790	790
H	mm	1980	1980	1980	1980	1980	1980	1980	1980
COUPLING EXTERNAL UNIT									
BDC STD/LT/LN		039m	052m	062m	078m	078m	092m	103m	123m

NOTE

(1) Indoor air: 24°C/50% r.h.; Water: 30°-35°C

(2) Measured at 1,5 m high and 2 m front unit, in open field conditions

AD 20÷90



Close control unit dual fluid, air cooled direct expansion 20 - 100 kW

Unit Description

Ductable close control units air-conditioners with capacity ranging from 20 to 100 kW for vertical installation and cooling only, with optional heating by means of heating elements and hot water, optional humidifier and dehumidifier for precise temperature and humidity control. Particularly suitable for air conditioning technological, servers and IT rooms and all technological applications in general. Units fitted with EC INVERTER fans, upflow or downflow.

DUAL FLUID unit has to be connected to an external chiller for PRIMARY circuit. The direct expansion circuit, secondary or BACK-UP circuit, is air cooled and has to be connected with a remote condenser.

Commands

EVOLUTION

Semi-graphic display 132 x 64 pixel, Programmable software, Record storage of 100 alarms, General alarm, Automatic reset after blackout, Compressor FIFO management, Integral LAN system, Standby management, Automatic rotation, Serious alarms, Operating contemporaneousness

Versions

- STD base version
- LT low outdoor temperature version with condensing fan speed regulation
- MOD version with condensing fan speed regulation

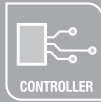
Features

Unit for installing inside or outside the room to be air-conditioned
Maximum resistance to rust thanks to galvanised sheet metal structures and panels with powder-coated paint finish. The panels are lined with sound-insulating material. The reliability of all the components is guaranteed by partners who are world leaders in their sector.
NEW EC INVERTER fans with electronic commutation in order to maximize the energy saving and reducing the noise emissions.
Standard G4 filtering section, F6-F8 optional, under CEN-EN 779 rule with the separation degree 90,1% ASHRAE. The filter is autoextinguishing type.
The microprocessor controls all the main functions of the air conditioners; it also controls the operating alarms with the possibility of interfacing to supervisor and remoteservicing systems.
Electrical box under IEC 204-1/EN60204-1 rules.
Capillary Pre and After sales service.

Main accessories

- Remote user terminal
- Electric heating coil
- Water heating coil
- Humidifier
- Vibration isolation frame with rubber mountings
- Air distribution plenum
- Sound absorber plenum for air outlet
- Interface electronic board
- Electronic Thermostatic valve





ACCURATE AD/STD

Models		20	26	29	39	30	40	50	60	70	80	90
Electrical power supply	V-Ph-Hz	400/3+N/50										
COOLING PERFORMANCES (DX)												
Total cooling capacity	(1) kW	23,7	29,4	32,7	42,2	36,7	47,6	55,1	62,1	75,5	86,3	98,8
Sensible cooling capacity	(1) kW	21,8	27,9	30,2	42,2	36,2	47	50,7	62,1	71	86,1	91
SHR		0,92	0,95	0,92	1	0,99	0,99	0,92	1	0,94	1	0,92
COMPRESSORS												
Quantity	n°	1	1	1	1	2	2	2	2	2	2	2
Power abs.	kW	4,93	6,01	6,75	7,87	7,15	9,87	11,7	12	15,4	17,7	21,4
N° Circuits	n°	1	1	1	1	2	2	2	2	2	2	2
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
COOLING PERFORMANCES (CW)												
Total cooling capacity	(2) kW	23,8	28,1	29,5	20	41	50	51,4	65	67,6	91	91
Sensible cooling capacity	(2) kW	21,8	26,4	27,6	46,3	37	46,3	47,5	62,2	64,5	85	85
SHR		0,92	0,94	0,94	0,93	0,90	0,93	0,92	0,96	0,95	0,93	0,93
Water flow rate	(2) l/h	3890	4590	4590	8170	6710	8170	8170	10630	10630	14870	14870
Total pressure drop water side	kPa	26	35	35	46	30	46	46	26	26	53	53
VENTILATION												
Air flow	mc/h	6000	7500	8000	13000	10000	13000	13500	18000	19000	24000	24000
N° EC Inverter fans	n°	1	1	1	2	2	2	2	3	3	4	4
EC Inverter fans power abs.	kW	0,89	1,60	1,80	3,40	2,09	3,40	3,65	4,50	5,20	6,82	6,82
ESP std.	Pa	20	20	20	20	20	20	20	20	20	20	20
Sound pressure level	(3) dB(A)	56	60	60	64	59	64	64	67	67	67	67
AIR FILTER												
Degree filtration		G4	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4
HUMIDIFIER												
Capacity	kg/h	5	5	5	5	5	5	5	8	8	8	8
Power abs.	kW	3,75	3,75	3,75	3,75	3,75	3,75	3,75	6	6	6	6
ELECTRICAL HEATERS												
Steps		3	3	3	3	3	3	3	3	3	3	3
Power abs.	kW	9	9	9	15	15	15	15	18	18	18	18
DIMENSION												
L	mm	1000	1000	1000	1550	1550	1550	1550	2100	2100	2650	2650
P	mm	790	790	790	790	790	790	790	790	790	790	790
H	mm	1980	1980	1980	1980	1980	1980	1980	1980	1980	1980	1980
COUPLING EXTERNAL UNIT												
BRE STD/LT/LN		027m	044m	044m	051m	054b	054b	065b	076b	100b	100b	116b

NOTE

(1) Indoor air: 24°C/50% r.h.; Condensing temp.: 45°C

(2) Indoor air: 24°C/50% r.h.; Water (in/out): 7/12°C

(3) Measured at 1,5 m high and 2 m front unit, in open field conditions



AT 20÷90



Close control unit dual fluid, water cooled direct expansion 20-100kW

Unit Description

Ductable close control units air-conditioners with capacity ranging from 20 to 100 kW for vertical installation and cooling only, with optional heating by means of heating elements and hot water, optional humidifier and dehumidifier for precise temperature and humidity control. Particularly suitable for air conditioning technological, servers and IT rooms and all technological applications in general. Units fitted with EC INVERTER fans, upflow or downflow.

DUAL FLUID unit has to be connected to an external chiller for PRIMARY circuit. The direct expansion circuit, secondary or BACK-UP circuit, is water cooled and has to be connected with a remote dry cooler or to city water net.

Commands

EVOLUTION

Semi-graphic display 132 x 64 pixel, Programmable software, Record storage of 100 alarms, General alarm, Automatic reset after blackout, Compressor FIFO management, Integral LAN system, Standby management, Automatic rotation, Serious alarms, Operating contemporaneousness

Versions

- STD base version
- MOD_A version with condensing fan speed regulation
- MOD_B version with condensing pressostatic regulation

Features

Unit for installing inside or outside the room to be air-conditioned
Maximum resistance to rust thanks to galvanised sheet metal structures and panels with powder-coated paint finish. The panels are lined with sound-insulating material. The reliability of all the components is guaranteed by partners who are world leaders in their sector.
NEW EC INVERTER fans with electronic commutation in order to maximize the energy saving and reducing the noise emissions.
Standard G4 filtering section, F6-F8 optional, under CEN-EN 779 rule with the separation degree 90,1% ASHRAE. The filter is autoextinguishing type.
The microprocessor controls all the main functions of the air conditioners; it also controls the operating alarms with the possibility of interfacing to supervisor and remoteservicing systems.
Electrical box under IEC 204-1/EN60204-1 rules.
Capillary Pre and After sales service.

Main accessories

- Remote user terminal
- Electric heating coil
- Water heating coil
- Humidifier
- Air distribution plenum
- Sound absorber plenum for air outlet
- Interface electronic board
- Electronic Thermostatic valve





ACCURATE AT/STD

Models		20	26	29	39	30	40	50	60	70	80	90
Electrical power supply	V-Ph-Hz	400/3+N/50										
COOLING PERFORMANCES (DX)												
Total cooling capacity	(1) kW	24,9	30,6	32,3	47,3	47,3	50	54,5	70,3	76,6	91,8	102
Sensible cooling capacity	(1) kW	22,8	28,3	30	46,9	46,9	47,9	50,7	66,8	71,1	88,2	92,2
SHR		0,92	0,92	0,93	0,99	0,99	0,96	0,93	0,95	0,93	0,96	0,90
COMPRESSORS												
Quantity	n°	1	1	1	1	2	2	2	2	2	2	2
Power abs.	kW	4,30	5,40	6,11	6,94	6,44	8,61	10,6	12,3	13,3	16	19,3
N° Circuits	n°	1	1	1	1	2	2	2	2	2	2	2
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
COOLING PERFORMANCES (CW)												
Total cooling capacity	(2) kW	23,8	28,1	29,5	50	41	50	51,4	65	67,6	91	91
Sensible cooling capacity	(2) kW	21,8	26,4	27,6	46,3	37	46,3	47,5	62,2	64,5	85	85
SHR		0,92	0,94	0,94	0,93	0,90	0,93	0,92	0,96	0,95	0,93	0,93
Water flow rate	(2) l/h	3890	4590	4590	8170	6710	8170	8170	10630	10630	14870	14870
Total pressure drop water side	(2) kPa	26	35	35	46	30	46	46	26	26	53	53
VENTILATION												
Air flow	mc/h	6000	7500	8000	13000	10000	13000	13500	18000	19000	24000	24000
N° EC Inverter fans	n°	1	1	1	2	2	2	2	3	3	4	4
EC Inverter fans power abs.	kW	0,89	1,60	1,80	3,40	2,09	3,40	3,65	4,50	5,20	6,82	6,82
ESP std.	Pa	20	20	20	20	20	20	20	20	20	20	20
Sound pressure level	(3) dB(A)	56	60	60	64	59	64	64	67	67	67	67
AIR FILTER												
Degree filtration		G4	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4
HUMIDIFIER												
Capacity	kg/h	5	5	5	5	5	5	5	8	8	8	8
Power abs.	kW	3,75	3,75	3,75	3,75	3,75	3,75	3,75	6	6	6	6
ELECTRICAL HEATERS												
Steps		3	3	3	3	3	3	3	3	3	3	3
Power abs.	kW	9	9	9	15	15	15	15	18	18	18	18
PLATE CONDENSER												
Water flow rate	(1) l/h	4780	6190	7204	9650	3720x2	4805x2	6156x2	7370x2	8340x2	19160	21340
Pressure drop	(1) kPa	22	35	32	36	26	22	33	36	32	32	40
Water content	l	2,50	2,50	3	3,80	2x1,6	2x2,5	2x2,5	2x3	2x3,8	8,53	8,53
DIMENSION												
L	mm	1000	1000	1000	1550	1550	1550	1550	2100	2100	2650	2650
P	mm	790	790	790	790	790	790	790	790	790	790	790
H	mm	1980	1980	1980	1980	1980	1980	1980	1980	1980	1980	1980
COUPLING EXTERNAL UNIT												
BDC STD/LT/LN		030m	039m	039m	052m	039m	052m	062m	078m	092m	103m	123m

NOTE

(1) Indoor air: 24°C/50% r.h.; Water: 30°-35°C

(2) Indoor air: 24°C/50% r.h.; Water (in/out): 7/12°C

(3) Measured at 1,5 m high and 2m front unit, in open field conditions



AF 20÷90



Close control unit free-cooling source,
water cooled direct expansion
20 - 100 kW

Unit Description

Ductable close control units air-conditioners with capacity ranging from 20 to 100 kW for vertical installation and cooling only, with optional heating by means of heating elements and hot water, optional humidifier and dehumidifier for precise temperature and humidity control. Particularly suitable for air conditioning technological, servers and IT rooms and all technological applications in general. Units fitted with EC INVERTER fans, upflow or downflow.

FREE-COOLING unit water cooled has to be connected with a remote dry cooler or an external chiller.

Commands

EVOLUTION

Semi-graphic display 132 x 64 pixel, Programmable software, Record storage of 100 alarms, General alarm, Automatic reset after blackout, Compressor FIFO management, Integral LAN system, Standby management, Automatic rotation, Serious alarms, Operating contemporaneousness

Versions

STD base version
MOD_A version with condensing fan speed regulation

Features

Unit for installing inside or outside the room to be air-conditioned
Maximum resistance to rust thanks to galvanised sheet metal structures and panels with powder-coated paint finish. The panels are lined with sound-insulating material. The reliability of all the components is guaranteed by partners who are world leaders in their sector.
NEW EC INVERTER fans with electronic commutation in order to maximize the energy saving and reducing the noise emissions.
Standard G4 filtering section, F6-F8 optional, under CEN-EN 779 rule with the separation degree 90,1% ASHRAE. The filter is autoextinguishing type.
The microprocessor controls all the main functions of the air conditioners; it also controls the operating alarms with the possibility of interfacing to supervisor and remoteservicing systems.
Electrical box under IEC 204-1/EN60204-1 rules.
Capillary Pre and After sales service.

Main accessories

- Remote user terminal
- Electric heating coil
- Water heating coil
- Humidifier
- Vibration isolation frame with rubber mountings
- Air distribution plenum
- Sound absorber plenum for air outlet
- Interface electronic board
- Electronic Thermostatic valve





ACCURATE AF/STD

Models		20	26	29	39	30	40	50	60	70	80	90
Electrical power supply	V-Ph-Hz	400/3+N/50										
COOLING PERFORMANCES (DX)												
Total cooling capacity	(1) kW	24,9	30,6	32,3	47,3	38,1	50	54,5	70,3	76,6	91,8	102
Sensible cooling capacity	(1) kW	22,8	28,3	30	46,9	36,7	47,9	50,7	66,8	71,1	88,2	92,2
SHR		0,92	0,92	0,93	0,99	0,96	0,96	0,93	0,95	0,93	0,96	0,90
COMPRESSORS												
Quantity	n°	1	1	1	1	2	2	2	2	2	2	2
Power abs.	kW	4,40	5,40	6,11	8	6,44	8,61	10,6	12,3	13,3	16	19,3
N° Circuits	n°	1	1	1	1	2	2	2	2	2	2	2
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
COOLING PERFORMANCES (FC)												
Total cooling capacity	(2) kW	20	24	25,1	40,8	33,6	41,5	43,8	56,6	58,1	76,7	78,3
Sensible cooling capacity	(2) kW	20	24	25,1	40,8	33,6	41,5	43,8	56,6	58,1	76,7	78,3
SHR		1	1	1	1	1	1	1	1	1	1	1
Water flow rate	l/h	4900	6330	7002	8430	7380	9810	11954	14360	16133	18120	20830
Total water pressure drop	kPa	60	97	69	89	64	84	95	85	91	80	99
PLATE CONDENSER												
Water content	l	11,8	11,8	11,8	17,9	17	19,1	19,1	25,2	26,8	32,5	32,5
VENTILATION												
Air flow	mc/h	6000	7500	8000	13000	10000	13000	13500	18000	19000	24000	24000
N° EC Inverter fans	n°	1	1	1	2	2	2	2	3	3	4	4
EC Inverter fans power abs.	kW	0,89	1,60	1,80	3,40	2,09	3,40	3,65	4,50	5,20	6,82	6,82
ESP std.	Pa	20	20	20	20	20	20	20	20	20	20	20
Sound pressure level	(3) dB(A)	56	60	60	64	59	64	64	67	67	67	67
AIR FILTER												
Degree filtration		G4	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4
HUMIDIFIER												
Capacity	kg/h	5	5	5	5	5	5	5	8	8	8	8
Power abs.	kW	3,75	3,75	3,75	3,75	3,75	3,75	3,75	6	6	6	6
ELECTRICAL HEATERS												
Steps		3	3	3	3	3	3	3	3	3	3	3
Power abs.	kW	9	9	9	15	15	15	15	18	18	18	18
DIMENSION												
L	mm	1000	1000	1000	1550	1550	1550	1550	2100	2100	2650	2650
P	mm	790	790	790	790	790	790	790	790	790	790	790
H	mm	1980	1980	1980	1980	1980	1980	1980	1980	1980	1980	1980
COUPLING EXTERNAL UNIT												
BDC STD/LT/LN		030m	039m	039m	052m	039m	052m	062m	078m	092m	103m	123m

NOTE

(1) Indoor air: 24°C/50% r.h.; Water: 30°-35°C

(2) Indoor air: 24°C/50% r.h.; Water IN: 10°C and water flow of DX mode

(3) Measured at 1,5 m high and 2m front unit, in open field conditions



AC 007÷221



Close control unit chilled water
8 - 225 kW

Unit Description

Ductable close control air-conditioners with capacities ranging from 8 to 225 kW for vertical installation and cooling only, with optional heating by means of heating element or hot water, optional humidifier and dehumidifier for precise temperature and humidity control. Particularly suitable for air-conditioning technological, server and CED rooms and all technological applications in general. Units fitted with centrifugal fans with upward airflow from the top or from the bottom. These units are provided with 3way valve and servomotor. Unit has to be connected with an external chiller.

Commands

EVOLUTION

Semi-graphic display 132 x 64 pixel Programmable software, Record storage of 100 alarms, General alarm Automatic reset after blackout, Integral LAN system Standby management, Automatic rotation, Serious alarms, Operating contemporaneousness

Versions

STD base version
HT for High Density application

Features

Unit for installing inside or outside the room to be air-conditioned.

Maximum resistance to rust thanks to galvanised sheet metal structures and panels with powder-coated paint finish. The panels are lined with sound-insulating material to limit noise levels.

The reliability and functionality of the all parts are guaranteed by partners who are world leaders in their sector.

Double-inlet centrifugal fan per standard installed, directly coupled and suspended on vibration-isolation mountings. The fans are of the forward-bladed type for maximum efficiency and low noise. Available as option, EC INVERTER fans with electronic commutation, Backward Curved Fan type to minimize energy consumption and noise emission.

Standard G2/G4 filtering section, F6-F8 optional, to CEN-EN 779 with average degree of separation 90.1% ASHRAE. The filter is self-extinguishing.

The microprocessor controls the mains functions of the conditioning unit, it also controls the operating alarms with the possibility of interfacing to supervisor and remote-servicing systems.

Switchboard to IEC 204-1/EN60204-1

Capillary Pre and After sales service.

Main accessories

- Remote user terminal
- Electric heating coil
- Water heating coil
- Humidifier
- Vibration isolation frame with rubber mountings
- Air distribution plenum
- Sound absorber plenum for air outlet
- Interface electronic board





ACCURATE AC/STD

Models		07	09	14	19	25	30	34	41	50
Electrical power supply	V-Ph-Hz	400/3+N/50								
COOLING PERFORMANCES										
Total cooling capacity	(1) kW	8,50	10,1	15,7	20,4	28,4	33,8	37,4	48,5	57,7
Sensible cooling capacity	(1) kW	8,50	9,50	15,7	19	28,4	30,9	37,4	48,5	52,8
SHR		1	0,94	1	0,93	1	0,91	1	1	0,92
Water flow rate	(1) l/h	1390	1660	2570	3330	4640	5520	6110	7930	9430
Total unit pressure drop	(1) kPa	33	36	39	60	57	65	46	69	71
N° water circuits	n°	1	1	1	1	1	1	1	1	1
FANS										
Fan air flow	m³/h	2500	2500	4900	4900	8000	8000	13500	13500	13500
N° Centrifugal fans	n°	1	1	2	2	1	1	2	2	2
N° EC Inverter fans	n°	1	1	2	2	1	1	2	2	2
Centrifugal fans power abs.	kW	0,49	0,49	1	1	2,02	2,02	3,61	3,61	3,61
EC Inverter fans power abs.	kW	0,27	0,27	0,53	0,53	1,69	1,69	3,51	3,51	3,51
ESP std.	Pa	20	20	20	20	20	20	20	20	20
Sound pressure level	(2) dB(A)	50	50	53	53	60	60	64	64	64
AIR FILTER										
Degree filtration		G2	G2	G2	G2	G4	G4	G4	G4	G4
HUMIDIFIER										
Capacity	kg/h	3	3	5	5	5	5	5	5	5
Power absorbed	kW	2,25	2,25	3,75	3,75	3,75	3,75	3,75	3,75	3,75
ELECTRICAL HEATERS										
Steps	n°	3	3	3	3	3	3	3	3	3
Power absorbed	kW	4	4	8	8	9	9	15	15	15
DIMENSION										
L	mm	600	600	1000	1000	1000	1000	1550	1550	1550
P	mm	500	500	500	500	790	790	790	790	790
H	mm	1980	1980	1980	1980	1980	1980	1980	1980	1980

Models		060	070	080	090	131	151	171	191	221
Electrical power supply	V-Ph-Hz	400/3+N/50								
COOLING PERFORMANCES										
Total cooling capacity	(1) kW	69	82,6	88,7	104	131	155	178	197	225
Sensible cooling capacity	(1) kW	69	73,7	88,7	97	106	127	136	156	168
SHR		1	0,89	1	0,93	0,81	0,82	0,77	0,79	0,75
Water flow rate	(1) l/h	11280	13500	14500	17050	21650	25530	29290	32350	36610
Total unit pressure drop	(1) kPa	71	73	69	74	122	88	105	147	135
N° water circuits	n°	1	1	1	1	1	1	1	1	1
FANS										
Fan air flow	m³/h	19000	19000	25000	25000	25000	30000	30000	36000	36000
N° Centrifugal fans	n°	2	2	3	3	3	-	-	-	-
N° EC Inverter fans	n°	3	3	4	4	4	3	3	3	3
Centrifugal fans power abs.	kW	6,55	6,55	9,42	9,42	9,42	-	-	-	-
EC Inverter fans power abs.	kW	5,11	5,11	6,82	6,82	6,82	4,9	4,9	6,7	6,7
ESP std.	Pa	20	20	20	20	20	20	20	20	20
Sound pressure level	(2) dB(A)	67	67	67	67	67	69	69	70	70
AIR FILTER										
Degree filtration		G4	G4	G4	G4	G4	G4	G4	G4	G4
HUMIDIFIER										
Capacity	kg/h	8	8	8	8	8	10	10	15	15
Power absorbed	kW	6	6	6	6	6	7,50	7,5	11,3	11,3
ELECTRICAL HEATERS										
Steps	n°	3	3	3	3	3	3	3	3	3
Power absorbed	kW	18	18	18	18	18	24	24	24	24
DIMENSION										
L	mm	2100	2100	2650	2650	2650	2650	2650	3200	3200
P	mm	790	790	790	790	790	890	890	890	890
H	mm	1980	1980	1980	1980	1980	2180	2180	2180	2180

NOTE

(1) Indoor air: 24°C/50% r.h.; Water (in/out): 7/12°C

(5) Measured at 1,5 m high and 2m front unit, in open field conditions

ACCURATE AC/HT

Models		025	030	034	041	050	060	070	080	090
Electrical power supply	V-Ph-Hz	400/3+N/50								
COOLING PERFORMANCES										
Total cooling capacity	(1) kW	30,8	37,1	44,5	52,2	63,2	73,3	87,4	97,4	108
Sensible cooling capacity	(1) kW	30,8	37,1	44,5	52,2	63,2	73,3	87,4	97,4	108
SHR		1	1	1	1	1	1	1	1	1
Water flow rate	(1) l/h	5320	6410	7654	9020	10920	12670	15100	16830	18660
Total unit pressure drop	(1) kPa	50	64	51	51	76	41	46	75	80
N° water circuits	n°	1	1	1	1	1	1	1	1	1
FANS										
Fan air flow	m³/h	8000	8000	13500	13500	13500	19000	19000	25000	25000
N° Centrifugal fans	n°	1	1	2	2	2	2	2	3	3
N° EC Inverter fans	n°	1	1	2	2	2	3	3	4	4
Centrifugal fans power abs.	kW	2,02	2,02	3,61	3,61	3,61	6,55	6,55	9,42	9,42
EC Inverter fans power abs.	kW	1,69	1,69	3,51	3,51	3,51	5,11	5,11	6,82	6,82
ESP std.	Pa	20	20	20	20	20	20	20	20	20
Sound pressure level	(2) dB(A)	60	60	64	64	64	67	67	67	67
AIR FILTER										
Degree filtration		G4	G4	G4	G4	G4	G4	G4	G4	G4
HUMIDIFIER										
Capacity	kg/h	5	5	5	5	5	8	8	8	8
Power absorbed	kW	3,75	3,75	3,75	3,75	3,75	6	6	6	6
ELECTRICAL HEATERS										
Steps	n°	3	3	3	3	3	3	3	3	3
Power absorbed	kW	9	9	15	15	15	18	18	18	18
DIMENSION										
L	mm	1000	1000	1550	1550	1550	2100	2100	2650	2650
P	mm	790	790	790	790	790	790	790	790	790
H	mm	1980	1980	1980	1980	1980	1980	1980	1980	1980

NOTE

(1) Indoor air: 33°C/40% r.h.; Water (in/out): 15/20°C

(5) Measured at 1,5 m high and 2m front unit, in open field condition





AB 020÷140



DUAL COIL close control unit, chilled water type 20 - 145 kW

Unit Description

Ductable close control units air-conditioners with capacity ranging from 20 to 145 kW for vertical installation and cooling only, with optional heating by means of heating elements and hot water, optional humidifier and dehumidifier for precise temperature and humidity control. Particularly suitable for air conditioning technological, servers and IT rooms and all technological applications in general. Units fitted with EC INVERTER fans, upflow or downflow. These units are provided with two independent chilled water circuits, each one with 3way valve and servomotor. Units has to be connected to 2 complete independent circuit each one in back-up to the other one.

Commands

EVOLUTION

Semi-graphic display 132 x 64 pixel Programmable software, Record storage of 100 alarms, General alarm Automatic reset after blackout, Integral LAN system Standby management, Automatic rotation, Serious alarms, Operating contemporaneousness

Versions

STD base version

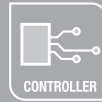
Features

Unit for installing inside or outside the room to be air-conditioned
Maximum resistance to rust thanks to galvanised sheet metal structures and panels with powder-coated paint finish. The panels are lined with sound-insulating material. The reliability and functionality of the all parts are guaranteed by partners who are world leaders in their sector.
NEW EC INVERTER fans with electronic commutation in order to maximize the energy saving and reducing the noise emissions.
Standard G4 filtering section, F6-F8 optional, under CEN-EN 779 rule with the separation degree 90,1% ASHRAE. The filter is autoextinguishing type.
The microprocessor controls the mains functions of the conditioning unit, it also controls the operating alarms with the possibility of interfacing to supervisor and remote-servicing systems.
Electrical box under IEC 204-1/EN60204-1 rules.
Capillary Pre and After sales service.

Main accessories

- Remote user terminal
- Electric heating coil
- Water heating coil
- Humidifier
- Vibration isolation frame with rubber mountings
- Air distribution plenum
- Sound absorber plenum for air outlet
- Interface electronic board





ACCURATE AB/STD

Models		020	025	030	040	045	055	060	075	105	120	130	140
Electrical power supply	V-Ph-Hz	400/3+N/50											
COOLING PERFORMANCES x each circuit													
Total cooling capacity	(1) kW	22,5	29	41,2	50,5	54,2	66,4	76,6	94,3	105	125	131	148
Sensible cooling capacity	(1) kW	22,5	27,7	41,2	47,5	54,2	64,5	76,6	89,9	102	112	128	137
SHR		1,00	0,96	1,00	0,94	1,00	0,97	1,00	0,95	0,98	0,90	0,98	0,92
Water flow rate	(1) l/h	3670	4840	6740	8420	8860	11060	12520	15710	17420	20780	21880	24070
Total unit pressure drop	(1) kPa	51	72	42	45	38	53	43	52	95	73	55	66
FANS													
Fan air flow	m³/h	8000	8000	13500	13500	19000	19000	26000	26000	30000	30000	36000	36000
N° EC Inverter fans	n°	1	1	2	2	3	3	4	4	3	3	3	3
EC Inverter fans power abs.	kW	1,69	1,69	3,51	3,51	5,11	5,11	6,82	6,82	4,9	4,9	6,7	6,7
ESP std.	Pa	20	20	20	20	20	20	20	20	20	20	20	20
Sound pressure level	(2) dB(A)	60	60	64	64	67	67	67	67	69	69	70	70
AIR FILTER													
Degree filtration		G4	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4
HUMIDIFIER													
Capacity	kg/h	5	5	5	5	8	8	8	8	10	10	15	15
Power absorbed	kW	3,75	3,75	3,75	3,75	6	6	6	6	7,50	7,50	11,3	11,3
ELECTRICAL HEATERS													
Steps	n°	3	3	3	3	3	3	3	3	3	3	3	3
Power absorbed	kW	9	9	15	15	18	18	18	18	24	24	24	24
DIMENSION													
L	mm	1000	1000	1550	1550	2100	2100	2650	2650	2650	2650	3200	3200
P	mm	790	790	790	790	790	790	790	790	890	890	890	890
H	mm	1980	1980	1980	1980	1980	1980	1980	1980	2180	2180	2180	2180

NOTE

(1) Indoor air: 24°C/50% r.h.; Water (in/out): 7/12°C

(2) Measured at 1,5 m high and 2m front unit, in open field conditions



BRE 014m÷116b



Remote condenser with axial fans

Unit Description

Remote condensers with axial-type fan(s) for outdoor installation. Installation may be vertical with a horizontal air outflow or, using special brackets, horizontal with an upward air outflow. The very low noise, adjustable-speed fans are excellent for use in both technological and civil applications. BRC-BRE units operate with a single-phase 230/1/50 power supply totally independent and separate from the indoor unit ACCURATE. These condensing units are therefore also suited for use without being directly connected to indoor units. BRC-BRE units are not provided with integrated fans speed regulator per standard. However, CLIMAVENETA can provide such fans speed regulator as OPTIONAL, by installing it directly inside the indoor unit ACCURATE.

Versions

STD	base version
LN	low noise version
LT	low outdoor temperature version

Features

ELECTRIC FANS of an axial type, statically and dynamically balanced on two levels, with blades in an inoxidable material and external rotor motor suitable for adjusting the speed, all mounted on a metal supporting grid in conformity with safety regulations. The motors are to VDE 0530-12.84. The protection rating is IP54 to DIN40050.

CONDENSING COIL: the combination of innovative corrugated fins with the use of smooth pipes on the exchanger ensures excellent heat transfer with a minimum amount of fluid. The heat exchangers consist of aluminium fins and copper pipes.

REFRIGERANT CIRCUIT CONNECTIONS are arranged along one side of the unite and are to be welded for safe connection that prevents any fluid leak.

Main accessories

- Legs kit for vertical air flow installation
- Epoxy coated (for fins only)
- Cataphoresis coil treatment
- Copper-Copper coil



BRE / STD

Models		014m	022m	027m	044m	051m	054b	065b	076b	100b	116b
NOMINAL CHARACTERISTICS											
Nominal capacity	(1) kW	13,4	21,7	26,6	43,5	50,4	53,3	65,1	76,2	100	116
Total power input	kW	0,27	0,60	0,60	1,20	1,20	1,20	1,80	1,80	2,40	3
Electrical power supply	V-Ph-Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Net weight	kg	72	85	102	137	153	167	191	213	302	339
VENTILATION											
Air flow	m³/h	5000	8200	7200	16400	15200	14400	24600	22800	28800	38000
Sound pressure level	(2) dB(A)	40	46	46	49	49	49	51	51	52	53
DIMENSION (3)											
L	mm	1240	1360	1360	2360	2360	2360	3360	3360	4360	5360
P	mm	494	580	580	580	580	580	580	580	580	580
H	mm	764	1070	1070	1070	1070	1070	1070	1070	1070	1070

NOTE

(1) Ext. air 35°C; $\Delta T = 13^\circ K$

(2) Sound pressure measured at 10 m in open field conditions

(3) Without legs kit configuration; horizontal air flow

BRE / LN

Models		014m	022m	027m	044m	051m	054b	065b	076b	100b	116b
NOMINAL CHARACTERISTICS											
Nominal capacity	(1) kW	14,1	20	28,2	42,3	50	55,3	73,1	75,5	99,1	118
Total power input	kW	0,33	0,26	0,66	0,99	0,99	0,99	1,32	1,32	1,65	2,52
Electrical power supply	V-Ph-Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Net weight	kg	85	125	137	191	213	235	276	302	339	397
VENTILATION											
Air flow	m³/h	6000	6500	12000	18000	16500	16000	22000	20300	27050	28560
Sound pressure level	(2) dB(A)	37	35	39	41	41	41	42	42	43	43
DIMENSION (3)											
L	mm	1360	2120	2360	3360	3360	3360	4360	4360	5360	5560
P	mm	580	494	580	580	580	580	580	580	580	615
H	mm	1070	764	1070	1070	1070	1070	1070	1070	1070	1070

NOTE

(1) Ext. air 35°C; $\Delta T = 13^\circ K$

(2) Sound pressure measured at 10 m in open field conditions

(3) Without legs kit configuration; horizontal air flow

BRE / LT

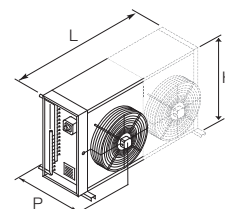
Models		014m	022m	027m	044m	051m	054b	065b	076b	100b	116b
NOMINAL CHARACTERISTICS											
Nominal capacity	(1) kW	13,4	21,7	26,6	43,5	50,4	53,3	65,1	76,2	100	116
Total power input	kW	0,27	0,60	0,60	1,20	1,20	1,20	1,80	1,80	2,40	3
Electrical power supply	V-Ph-Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Net weight	kg	72	85	102	137	153	167	191	213	302	339
VENTILATION											
Air flow	m³/h	5000	8200	7200	16400	15200	14400	24600	22800	28800	38000
Sound pressure level	(2) dB(A)	40	46	46	49	49	49	51	51	52	53
DIMENSION (3)											
L	mm	1240	1360	1360	2360	2360	2360	3360	3360	4360	5360
P	mm	494	580	580	580	580	580	580	580	580	580
H	mm	764	1070	1070	1070	1070	1070	1070	1070	1070	1070

NOTE

(1) Ext. air 35°C; $\Delta T = 13^\circ K$

(2) Sound pressure measured at 10 m in open field conditions

(3) Without legs kit configuration; horizontal air flow



BRC 014m÷120b



Remote condenser with axial fans

Unit Description

Remote condensers with axial-type fan(s) for outdoor installation. Installation may be vertical with a horizontal air outflow or, using special brackets, horizontal with an upward air outflow. The very low noise, adjustable-speed fans are excellent for use in both technological and civil applications. BRC-BRE units operate with a single-phase 230/1/50 power supply totally independent and separate from the indoor unit ACCURATE. These condensing units are therefore also suited for use without being directly connected to indoor units. BRC-BRE units are not provided with integrated fans speed regulator per standard. However, CLIMAVENETA can provide such fans speed regulator as OPTIONAL, by installing it directly inside the indoor unit ACCURATE.

Versions

STD	base version
LN	low noise version
LT	low outdoor temperature version

Features

HOUSING: designed to allow easy access to internal components, is made from prepainted galvanized sheet steel, and it:

- offers high corrosion strength and impact resistance;
- is resistant at low temperatures;
- is non toxic;
- does not produce polluting debris;
- is completely covered in a protective plastic film.

ELECTRIC FANS of an axial type, statically and dynamically balanced on two levels, with blades in an inoxidable material and external rotor motor suitable for adjusting the speed, all mounted on a metal supporting grid in conformity with safety regulations. The motors are to VDE 0530-12.84. The protection rating is IP54 to DIN40050.

CONDENSING COIL: the combination of innovative corrugated fins with the use of smooth pipes on the exchanger ensures excellent heat transfer with a minimum amount of fluid. The heat exchangers consist of aluminium fins and copper pipes.

REFRIGERANT CIRCUIT CONNECTIONS are arranged along one side of the unit and are to be welded for safe connection that prevents any fluid leak. **ISOLATING SWITCH**, contained in an electric box with protection rating IP54, with switch control accessible from the outside and connecting terminals.

Main accessories

- Legs kit for vertical air flow installation
- Epoxy coated (for fins only)
- Cataphoresis coil treatment
- Copper-Copper coil



BRC / STD

Models		014m	025m	032m	051b	052m	077b	088b	093b	102b	120b
NOMINAL CHARACTERISTICS											
Nominal capacity	(1) kW	14	26	32	52	52	77	90	93	102	120
Total power input	kW	0,28	0,60	0,60	1,20	1,20	1,80	1,80	1,80	2,40	2,40
Electrical power supply	V-Ph-Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Net weight	kg	45	90	110	167	167	239	253	293	320	337
VENTILATION											
Air flow	m³/h	4410	8780	7870	17560	17560	26340	25230	23610	35120	33640
Sound pressure level	(2) dB(A)	41	48	48	51	51	53	53	53	54	54
DIMENSION (3)											
L	mm	1175	1325	1325	2425	2425	3525	3525	3525	4625	4625
P	mm	510	630	630	630	630	630	630	630	630	630
H	mm	872	1168	1168	1168	1168	1168	1168	1168	1168	1168

NOTE

(1) Ext. air 35°C; ΔT = 15°K

(2) Sound pressure measured at 10 m in open field conditions

(3) Without legs kit configuration; horizontal air flow

BRC / LN

Models		014m	025m	032m	051b	052m	077b	088b	093b	102b	120b
NOMINAL CHARACTERISTICS											
Nominal capacity	(1) kW	13	22	42	48	48	72	76	85	95	101
Total power input	kW	0,13	0,33	0,66	0,66	0,66	0,99	0,99	1,32	1,32	1,32
Electrical power supply	V-Ph-Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Net weight	kg	50	90	110	177	177	253	293	320	337	391
VENTILATION											
Air flow	m³/h	2930	6410	12820	12160	12160	18240	17340	25640	24320	23400
Sound pressure level	(2) dB(A)	33	38	41	41	41	43	43	44	44	44
DIMENSION (3)											
L	mm	1175	1325	2425	2425	2425	3525	3525	4625	4625	4625
P	mm	510	630	630	630	630	630	630	630	630	630
H	mm	872	1168	1168	1168	1168	1168	1168	1168	1168	1168

NOTE

(1) Ext. air 35°C; ΔT = 15°K

(2) Sound pressure measured at 10 m in open field conditions

(3) Without legs kit configuration; horizontal air flow

BRC / LT

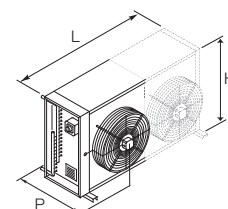
Models		014m	025m	032m	051b	052m	077b	088b	093b	102b	120b
NOMINAL CHARACTERISTICS											
Nominal capacity	(1) kW	14	26	32	52	52	77	90	93	102	120
Total power input	kW	0,28	0,60	0,60	1,20	1,20	1,80	1,80	1,80	2,40	2,40
Electrical power supply	V-Ph-Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Net weight	kg	45	90	110	167	167	239	253	293	320	337
VENTILATION											
Air flow	m³/h	4410	8780	7870	17560	17560	26340	25230	23610	35120	33640
Sound pressure level	(2) dB(A)	41	48	48	51	51	53	53	53	54	54
DIMENSION (3)											
L	mm	1175	1325	1325	2425	2425	3525	3525	3525	4625	4625
P	mm	510	630	630	630	630	630	630	630	630	630
H	mm	872	1168	1168	1168	1168	1168	1168	1168	1168	1168

NOTE

(1) Ext. air 35°C; ΔT = 15°K

(2) Sound pressure measured at 10 m in open field conditions

(3) Without legs kit configuration; horizontal air flow



ARCC M1D÷M4F_B



Versions

STD base version

Features

CONDENSING COIL with high efficiency made by innovative corrugated fins and copper pipes with grooved internal surface.
 FANS with double-inlet, with vibration-isolation mountings, with protection rating IP44 and insulation class F.

Main accessories

- Legs kit for vertical air flow installation
- Copper-Copper coil

Remote condenser with centrifugal fans

Unit Description

Condensing unit with centrifugal fan with very low noise level are excellent for use in both technological and civil applications, designed for ductable installation with max ESP 150Pa. The possibility to remove the side panel made easier the cleaning operation and the air flow configuration. The ARCC units operate with a 230V/1/50Hz and 400V/3+N/50Hz power supply totally independent and separate from the indoor unit ACCURATE. These units are therefore also suited for use without being directly connected to indoor units.



ARCC / STD

Models		M1D	M2B	M2C	M2D	M3C	M3D	M2E	
NOMINAL CHARACTERISTICS									
Nominal capacity	(1)	kW	14	18	22	28	33	42	55
Total power input		kW	0,525	1,1	1,05	1,50	1,575	1,575	2,76
Electrical power supply		V-Ph~Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	400/3+N/50
Net weight		kg	87	83	121	135	162	183	188
VENTILATION									
Air flow	(2)	m³/h	3230	4560	7040	6460	10560	9690	13120
Sound pressure level	(3)	dB(A)	35	38	37	37	39	39	46
DIMENSION									
L		mm	760	1020	1360	1360	1960	1960	2060
P		mm	950	800	845	845	845	845	845
H		mm	845	520	950	950	950	950	950

Models		M3D_B	M2E_B	M3G_B	M3E_B	M3F_B	M4E_B	M4F_B	
NOMINAL CHARACTERISTICS									
Nominal capacity	(1)	kW	42	55	66	82,5	87	110	116
Total power input		kW	1,575	2,76	4,14	4,14	4,14	5,52	5,52
Electrical power supply		V-Ph~Hz	230/1/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50
Net weight		kg	183	188	216	266	293	344	378
VENTILATION									
Air flow	(2)	m³/h	9690	13120	17490	19680	18570	26240	24760
Sound pressure level	(3)	dB(A)	39	46	48	48	48	49	49
DIMENSION									
L		mm	1960	2060	1960	3010	3010	3960	3960
P		mm	845	845	845	845	845	845	845
H		mm	950	950	950	950	950	950	950

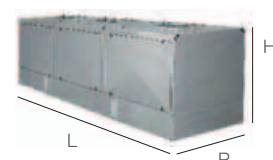
NOTE

(1) Ext. Air 35°C; ΔT =15°K

(2) ESP=100Pa

(3) Sound pressure measured at 10 m in open field conditions

(4) Without legs kit configuration; horizontal air flow



BDC 013m÷123m



Dry Cooler

Unit Description

Dry Cooler with axial-type fan(s) for outdoor installation. Installation may be vertical with a horizontal air outflow or, using special brackets, horizontal with an upward air outflow. The very low noise, adjustable-speed fans are excellent for use in both technological and civil applications. BDC units operate with a single-phase 230/1/50 power supply totally independent and separate from the indoor unit ACCURATE. These units are therefore also suited for use without being directly connected to indoor units. BDC units are not provided with integrated fans speed regulator per standard. However, CLIMAVENETA can provide such fans speed regulator as OPTIONAL, by installing it directly inside the indoor unit ACCURATE.

Versions

STD	base version
LN	low noise version
LT	low outdoor temperature version

Features

HOUSING: designed to allow easy access to internal components, is made from prepainted galvanized sheet steel, and it:

- offers high corrosion strength and impact resistance;
- is resistant at low temperatures;
- is non toxic;
- does not produce polluting debris;
- is completely covered in a protective plastic film.

ELECTRIC FANS of an axial type, statically and dynamically balanced on two levels, with blades in an inoxidable material and external rotor motor suitable for adjusting the speed, all mounted on a metal supporting grid in conformity with safety regulations. The motors are to VDE 0530-12.84. The protection rating is IP54 to DIN40050.

HEAT EXCHANGER: the combination of innovative corrugated fins with the use of smooth pipes on the exchanger ensures excellent heat transfer with a minimum amount of fluid. The heat exchangers consist of aluminium fins and copper pipes.

HYDRAULICS CIRCUIT CONNECTIONS are arranged along one side of the unit and are to be welded for safe connection that prevents any fluid leak.

ISOLATING SWITCH, contained in an electric box with protection rating IP54, with switch control accessible from the outside and connecting terminals.

Main accessories

- Legs kit for vertical air flow installation
- Epoxy coated (for fins only)
- Cataphoresis coil treatment
- Copper-Copper coil



BDC / STD

Models		013m	030m	039m	052m	062m	078m	092m	103m	123m
NOMINAL CHARACTERISTICS										
Nominal capacity	(1) kW	17	33	40,5	61	68	83	98,5	121	135
Total power input	kW	0,60	1,20	1,20	1,80	1,80	2,40	3,60	3,60	3,60
Electrical power supply	V-Ph-Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Net weight	kg	90	167	177	253	293	337	490	519	601
VENTILATION										
Air flow	m³/h	8780	17560	16820	25230	23610	33640	52680	50460	47220
Sound pressure level	(2) dB(A)	48	51	51	53	53	54	56	56	56
DIMENSION (3)										
L	mm	1325	2425	2425	3525	3525	4625	3658	3658	3658
P	mm	630	630	630	630	630	630	760	760	760
H	mm	1168	1168	1168	1168	1168	1168	2286	2286	2286

NOTE

(1) Water temp.: 35/30°C; Ext. Temp.: 24°C

(2) Sound pressure measured at 10 m in open field conditions

(3) Without legs kit configuration; horizontal air flow

BDC / LN

Models		013m	030m	039m	052m	062m	078m	092m	103m	123m
NOMINAL CHARACTERISTICS										
Nominal capacity	(1) kW	14	32	40,5	54	65,5	82	96	107	129
Total power input	kW	0,33	0,66	0,99	1,32	1,32	1,65	1,98	2,64	2,64
Electrical power supply	V-Ph-Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Net weight	kg	90	177	239	320	337	363	519	640	675
VENTILATION										
Air flow	m³/h	6410	12160	19230	25640	24320	30400	36480	51280	48640
Sound pressure level	(2) dB(A)	38	41	43	44	44	45	46	47	47
DIMENSION (3)										
L	mm	1325	2425	3525	4625	4625	5725	3658	4758	4758
P	mm	630	630	630	630	630	630	760	760	760
H	mm	1168	1168	1168	1168	1168	1168	2286	2286	2286

NOTE

(1) Water temp.: 35/30°C; Ext. Temp.: 24°C

(2) Sound pressure measured at 10 m in open field conditions

(3) Without legs kit configuration; horizontal air flow

BDC / LT

Models		013m	030m	039m	052m	062m	078m	092m	103m	123m
NOMINAL CHARACTERISTICS										
Nominal capacity	(1) kW	17	33	40,5	61	68	83	98,5	121	135
Total power input	kW	0,60	1,20	1,20	1,80	1,80	2,40	3,60	3,60	3,60
Electrical power supply	V-Ph-Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Net weight	kg	90	167	177	253	293	337	490	519	601
VENTILATION										
Air flow	m³/h	8780	17560	16820	25230	23610	33640	52680	50460	47220
Sound pressure level	(2) dB(A)	48	51	51	53	53	54	56	56	56
DIMENSION (3)										
L	mm	1325	2425	2425	3525	3525	4625	3658	3658	3658
P	mm	630	630	630	630	630	630	760	760	760
H	mm	1168	1168	1168	1168	1168	1168	2286	2286	2286

NOTE

(1) Water temp.: 35/30°C; Ext. Temp.: 24°C

(2) Sound pressure measured at 10 m in open field conditions

(3) Without legs kit configuration; horizontal air flow

