

i-NEXT DL DX

018 M1 S - 047 M1 S 21,7-53,0 kW

Close control unit, INVERTER direct expansion air cooled



Ductable close control units air-conditioners for vertical installation and cooling only, with optional heating by means of heating element, optional humidifier and dehumidifier for precise temperature and humidity control. Particularly suitable for precision air conditioning in 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 starting current. Units fitted with electronic expansion valve and EC INVERTER fans with displacement air delivery.



Refrigerant

Versions

- DISPLACEMENT AIR DELIVERY

Features

Unit for indoor installation with displacement air delivery. 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. Standard G4 filtering section, M5 optional, to CEN-EN 779 with average degree of separation 90.1% ASHRAE. The filter is self-extinguishing. NEW EC INVERTER fans in order to maximize the energy saving and reducing the noise emissions. The fan section is contained within the machine and includes: centrifugal fans with backward curved blades with wing profile, single suction and without scroll housings (Plug-fans), directly coupled to external EC rotor electric motor brushless type with integrated electronic commutated system and continuous variation of the rotation speed. 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 of electronic expansion valve that allows high performance and system efficiency thanks to a timely and accurate response to changes in temperature and pressure, sight glass, filter dryer on liquid line, pressure transducers with indication, control and protection functions on low and high refrigerant pressure, high pressure safety switch with manual reset, liquid receiver with accessories. Last generation of scroll or rotary BLDC INVERTER compressor, for high efficiency. Capillary Pre and After sales service.

Control



EVOLUTION+

Semi-graphic display 132 x 64 pixel, programmable software, record storage of 200 alarms, general alarm, automatic reset after blackout, integral LAN system, standby management, automatic rotation, serious alarms, operating contemporaneousness, clock function.

Accessories

- Remote user terminal
- Humidifier
- Electric heating coil
- Interface electronic board

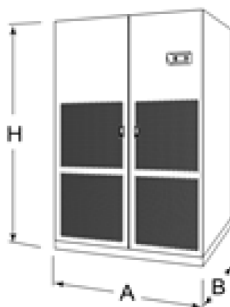
i-NEXT DL DX		018 M1 S	022 M1 S	030 M1 S	047 M1 S
Frame		E2	E3	E4	E5
Power supply	V/ph/Hz	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50
PERFORMANCE					
Total cooling capacity gross	(1) kW	16,2	16,8	27,4	40,5
Sensible cooling capacity gross	(1) kW	16,2	16,8	27,4	40,5
Total power input (Comp.+fans)	(1) kW	3,96	3,88	6,46	9,51
EER (Indoor unit)	(1) kW/kW	4,09	4,33	4,24	4,26
SHR	(2)	1,00	1,00	1,00	1,00
REFRIGERANT CIRCUIT					
Compressors nr.	N°	1	1	1	1
No. Circuits	N°	1	1	1	1
Refrigerant charge	kg	3,60	4,30	6,10	9,20
FANS					
Fans type		EC FAN	EC FAN	EC FAN	EC FAN
Quantity	N°	1	1	1	1
Air flow	(3) m³/h	2880	2880	5200	8400
NOISE LEVEL					
Sound Power	dB(A)	61	53	67	78
Sound Pressure	(4) dB(A)	45	37	50	61
SIZE AND WEIGHT					
A	(3) mm	785	1085	1305	1630
B	(3) mm	675	775	930	930
H	(3) mm	1925	1925	2165	2165
Weight	(3) kg	240	320	430	560

Notes

- Indoor conditions (in) 30°C - R.H. 30%; Condensing temperature 45°C; ESP= 20Pa.
- SHR = Sensible cooling capacity gross / Total cooling capacity gross.
- Unit in standard configuration/execution, without optional accessories.
- Average sound pressure level, at a distance of 1m, for units in a free field on a reflecting surface. The average sound pressure level is calculated based on the sound power level measured in accordance with ISO 3744.

The units highlighted in this publication contain HFC R410A [GWP₁₀₀ 2088] fluorinated greenhouse gases.

Dimensional drawing



t-NEXT DL DX

Close control unit, air cooled, direct expansion

007 P1 - 041 P1 7,63-42,6 kW



Close control air-conditioners for vertical installation and cooling only, with optional heating by means of heating element, optional humidifier and dehumidifier for precise temperature and humidity control. Particularly suitable for for precision air conditioning in servers and IT rooms and all technological applications in general. Units fitted with EC INVERTER fans and displacement air delivery. External air condenser.



Refrigerant

Versions

- DISPLACEMENT AIR DELIVERY

Features

Unit for indoor installation with displacement air delivery. 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 in order to maximize the energy saving and reducing the noise emissions. The fan section is contained within the machine and includes: centrifugal fans with backward curved blades with wing profile, single suction and without scroll housings (Plug-fans), directly coupled to external EC rotor electric motor brushless type with integrated electronic commutated system and continuous variation of the rotation speed. Standard G4 filtering section, M5 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 of mechanical expansion valve, sight glass, filter dryer on liquid line, pressure transducers with indication, control and protection functions on low and high refrigerant pressure, high pressure safety switch with manual reset, liquid receiver with accessories. Switchboard to IEC 204-1/EN60204-1. Capillary Pre and After sales service.

Control



EVOLUTION+

Semi-graphic display 132 x 64 pixel, programmable software, record storage of 200 alarms, general alarm, automatic reset after blackout, integral LAN system, standby management, automatic rotation, serious alarms, operating contemporaneousness, clock function.

Accessories

- Remote user terminal
- Humidifier
- Electric heating coil
- Interface electronic board



t-NEXT DL DX			007 P1	009 P1	011 P1	014 P1	016 P1	020 P1
Frame			E1	E1	E1	E2	E2	E3
Power supply		V/ph/Hz	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50
PERFORMANCE								
Total cooling capacity gross	(1)	kW	7,63	9,18	10,6	14,1	15,1	20,5
Sensible cooling capacity gross	(1)	kW	7,54	9,02	10,3	13,8	14,8	20,5
Total power input (Comp.+fans)	(1)	kW	1,59	1,98	2,43	3,01	3,42	4,02
EER (Indoor unit)	(1)	kW/kW	4,80	4,64	4,36	4,68	4,42	5,10
SHR	(2)		0,99	0,98	0,97	0,98	0,98	1,00
REFRIGERANT CIRCUIT								
Compressors nr.		N°	1	1	1	1	1	1
No. Circuits		N°	1	1	1	1	1	1
Refrigerant charge		kg	3,20	3,20	3,20	3,40	3,40	4,00
FANS								
Fans type			EC FAN	EC FAN	EC FAN	EC FAN	EC FAN	EC FAN
Quantity		N°	1	1	1	1	1	1
Air flow	(3)	m³/h	2000	2160	2240	3200	3360	4560
NOISE LEVEL								
Sound Power		dB(A)	46	50	50	60	60	58
Sound Pressure	(4)	dB(A)	30	34	34	44	44	42
SIZE AND WEIGHT								
A	(3)	mm	650	650	650	785	785	1085
B	(3)	mm	675	675	675	675	675	775
H	(3)	mm	1925	1925	1925	1925	1925	1925
Weight	(3)	kg	220	221	225	260	263	320

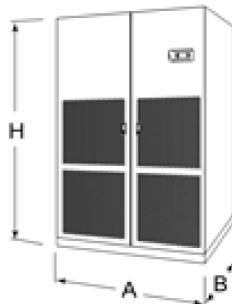
t-NEXT DL DX			022 P1	026 P1	032 P1	037 P1	041 P1	
Frame			E3	E3	E4	E4	E4	
Power supply		V/ph/Hz	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	
PERFORMANCE								
Total cooling capacity gross	(1)	kW	22,4	26,7	34,6	38,5	42,6	
Sensible cooling capacity gross	(1)	kW	22,3	26,0	33,0	38,0	41,8	
Total power input (Comp.+fans)	(1)	kW	4,85	5,99	6,89	8,14	8,96	
EER (Indoor unit)	(1)	kW/kW	4,62	4,46	5,02	4,73	4,75	
SHR	(2)		1,00	0,97	0,95	0,99	0,98	
REFRIGERANT CIRCUIT								
Compressors nr.		N°	1	1	1	1	1	
No. Circuits		N°	1	1	1	1	1	
Refrigerant charge		kg	4,00	4,00	5,70	5,70	8,60	
FANS								
Fans type			EC FAN	EC FAN	EC FAN	EC FAN	EC FAN	
Quantity		N°	1	1	1	1	1	
Air flow	(3)	m³/h	4880	5120	6960	8000	8640	
NOISE LEVEL								
Sound Power		dB(A)	58	62	74	77	75	
Sound Pressure	(4)	dB(A)	42	46	57	60	58	
SIZE AND WEIGHT								
A	(3)	mm	1085	1085	1305	1305	1305	
B	(3)	mm	775	775	930	930	930	
H	(3)	mm	1925	1925	2165	2165	2165	
Weight	(3)	kg	320	322	420	425	440	

Notes

- Indoor conditions (in) 30°C - R.H. 30%; Condensing temperature 45°C; ESP= 20Pa.
- SHR = Sensible cooling capacity gross / Total cooling capacity gross.
- Unit in standard configuration/execution, without optional accessories.
- Average sound pressure level, at a distance of 1m, for units in a free field on a reflecting surface. The average sound pressure level is calculated based on the sound power level measured in accordance with ISO 3744.

The units highlighted in this publication contain HFC R410A [GWP₁₀₀ 2088] fluorinated greenhouse gases.

Dimensional drawing



W-NEXT DL

012 - 042 11,6-41,3 kW

Close control unit chilled water



Ductable close control air-conditioners for vertical installation and cooling only, with optional heating by means of heating element, optional humidifier and dehumidifier for precise temperature and humidity control. Particularly suitable for precision air conditioning in servers and IT rooms and all technological applications in general. Units fitted with EC INVERTER fans and displacement air delivery. These units are provided with modulating 2 way valve and servomotor. Unit has to be connected with an external chiller.

Control



EVOLUTION+

Semi-graphic display 132 x 64 pixel, programmable software, record storage of 200 alarms, general alarm, automatic reset after blackout, integral LAN system, standby management, automatic rotation, serious alarms, operating contemporaneousness, clock function.

Versions

- DISPLACEMENT AIR DELIVERY

Features

Unit for indoor installation with displacement air delivery.

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.

NEW EC INVERTER fans in order to maximize the energy saving and reducing the noise emissions. The fan section is contained within the machine and includes: centrifugal fans with backward curved blades with wing profile, single suction and without scroll housings (Plug-fans), directly coupled to external EC rotor electric motor brushless type with integrated electronic commutated system and continuous variation of the rotation speed.

Standard G4 filtering section, M5 optional, to CEN-EN 779 with average degree of separation 90.1% ASHRAE. The filter is self-extinguishing.

Switchboard to IEC 204-1/EN60204-1

Capillary Pre and After sales service.

Accessories

- Remote user terminal
- Electric heating coil
- Humidifier
- Interface electronic board

w-NEXT DL		012 E1	022 E2	030 E3	042 E3P	
Frame		E1	E2	E3	E3P	
Power supply	V/ph/Hz	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	
PERFORMANCE						
Total cooling capacity gross	(1)	kW	11,6	18,9	29,4	41,3
Sensible cooling capacity gross	(1)	kW	11,6	18,9	29,4	41,3
Fans power input	(1)	kW	0,17	0,42	0,81	1,50
SHR	(2)		1,00	1,00	1,00	1,00
Fluid flow	(1)	l/s	0,55	0,91	1,41	1,98
Total pressure drop (Coil + Valve)	(1)	kPa	12,9	35,3	30,3	27,9
FANS						
Fans type		EC FAN	EC FAN	EC FAN	EC FAN	
Quantity	N°	1	1	1	1	
Air flow	(3)	m³/h	2320	3936	6240	8640
NOISE LEVEL						
Sound Power		dB(A)	53	65	65	73
Sound Pressure	(4)	dB(A)	33	45	45	53
SIZE AND WEIGHT						
A	(3)	mm	720	855	1155	1155
B	(3)	mm	675	675	775	930
H	(3)	mm	1925	1925	1925	2110
Weight	(3)	kg	196	230	290	320

- Notes**
- Indoor conditions (in) 30°C - R.H. 30%; Water temperature (in/out) 10°C/15°C; ESP= 20Pa.
 - SHR = Sensible cooling capacity gross / Total cooling capacity gross.
 - Unit in standard configuration/execution, without optional accessories.
 - Average sound pressure level, at a distance of 2m, for units in a free field on a reflecting surface. The average sound pressure level is calculated based on the sound power level measured in accordance with ISO 3744.

Dimensional drawing

