

DXA

Direct expansion air condensation



DXA

The air conditioners belonging to the DXA series direct expansion air condensation, have been specifically designed and manufactured for close control air conditioning where the handling of almost exclusively sensible heat loads is a fundamental requirement and where is not present a central chilled water plant.

The typical applications are high-performance computer rooms, internet data center, digital telephone exchanges, switch rooms, weather stations, medical laboratories, archives, museums as well as any other application both of small or large dimension, where the sensible heat load must be dissipated and is possible also regulate ambient humidity (optional).

The sizing of EC fans, Electronically Commutated the latest "Plug-In" and the exchange surfaces, allows the containment of emissions noise and electronic .

The units are designed to present the smallest footprint possible, reducing the cost of the occupied floor space, and full frontal access for easy inspection and service.

The DXA units have compressor on board; the heat from the technical room is dissipated by an external finned coil condenser, connected during installation.

VERSIONS

- **C00:** Only Cooling, base version, only cooling coil without humidification and dehumidification.
- **C0D:** Cooling and Dehumidification with electrical heater post heating, no humidification.
- **CH0:** Cooling and Humidification by non-pressurised steam humidifier by means of electrodes immersed.
- **CHD:** Cooling/Humidification/Dehumidification with electrical heater post heating, and non-pressurised steam humidifier by means of electrodes immersed .

Model		061	071	091	111	141	161	191	211	261	321	401	501
Total cooling capacity ⁽¹⁾	kW	6,4	7,5	9,3	11,6	14,7	16,5	19,6	22,5	25,8	33,8	37,5	45,6
Sensible cooling capacity ⁽¹⁾	kW	5,6	7,2	8,1	9,6	11,7	14,2	16,6	19,0	21,3	28,1	30,8	37,7
SHR		0,87	0,96	0,87	0,83	0,79	0,86	0,85	0,84	0,83	0,83	0,82	0,83
Max power input compressor	kW	1,5	1,9	2,3	2,9	3,8	3,9	4,5	5,2	5,7	7,3	8,2	9,5
Max current input	A	10,4	13,4	16,2	7,9	9,7	10,1	15,0	15,0	16,0	22,0	25,0	31,0
Peak current	A	43,0	62,0	64,0	48,0	63,0	63,0	75,0	101,0	95,0	118,0	118,0	140,0
Nominal air flow	m ³ /h	1800	2050	2600	2800	3300	4500	4700	5400	6100	8500	8300	11300
Fans	n°xkW	1x0,13	1x0,16	1x0,26	1x0,32	1x0,23	1x0,33	1x0,41	1x0,70	1x0,68	1x1,48	2x0,42	2x0,70
Nominal pressure drop	Pa	150	150	120	100	250	250	250	250	250	250	250	250
Type of compressor		Rotative					Hermetic scroll						
N. compressors / N. Circuit		1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
Power supply		230V/1N/50Hz			400/3N/50		400V/3/50Hz						
Humidifier nominal capacity ⁽²⁾	kg/h	1,5	1,5	3	3	5	5	5	5	5	5	5	5
Heat capacity of electrical heaters	kW	1,5	1,5	1,5	1,5	5,0	5,0	5,0	5,0	5,0	5,0	10,0	10,0
SPL indoor unit "Under" ⁽³⁾	dB(A)	54	57	62	64	50	56	57	59	62	68	57	60
SPL indoor unit "Over" ⁽³⁾	dB(A)	57	60	65	67	52	59	60	62	65	72	60	63
HRA (Standard)		S070	S070	S090	S110	S160	S160	S210	S210	L260	L320	L450	L450
SPL outdoor unit STD ⁽⁴⁾	dB(A)	43	43	43	46	46	46	43	43	46	46	46	48
HRA/LS (Low noise)		S060	S070	S090	S110	S160	S160	S210	S210	L260	L400	L400	L450
SPL outdoor unit LS ⁽⁴⁾	dB(A)	33	33	36	29	32	32	32	32	39	39	39	41

Model		262	322	402	452	482	582	652	752	902	1002
Total cooling capacity ⁽¹⁾	kW	30,5	33,1	39,3	46,0	50,0	57,7	67,0	75,0	89,6	99,4
Sensible cooling capacity ⁽¹⁾	kW	25,5	28,7	32,6	39,4	42,0	49,0	56,2	63,2	74,0	81,4
SHR		0,84	0,87	0,83	0,86	0,84	0,85	0,84	0,84	0,83	0,82
Max power input compressor	kW	6,6	7,7	9,1	10,3	11,3	12,7	14,6	16,5	18,9	22,2
Max current input	A	20,6	23,6	30,0	30,0	32,0	42,0	44,0	50,0	62,0	68,0
Peak current	A	103,0	128,0	150,0	202,0	190,0	222,0	236,0	236,0	280,0	348,0
Nominal air flow	m ³ /h	7200	8200	8900	11500	11900	14500	16100	17300	21100	22000
Fans	n° xkW	1x0,91	1x1,32	2x0,31	2x0,74	2x0,86	2x1,01	2x1,41	2x1,23	3x1,06	3x1,22
Nominal pressure drop	Pa	250	250	250	250	250	250	250	250	250	250
Type of compressor		Hermetic scroll									
N. compressors / N. Circuit		2 / 1	2 / 1	2 / 1	2 / 1	2 / 1	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2
Power supply		400V/3/50Hz									
Humidifier nominal capacity ⁽²⁾	kg/h	5	5	5	5	8	8	8	8	8	8
Heat capacity of electrical heaters	kW	5,0	5,0	10,0	10,0	10,0	10,0	10,0	15,0	15,0	15,0
SPL indoor unit "Under" ⁽³⁾	dB(A)	66	68	58	64	65	69	71	72	72	73
SPL indoor unit "Over" ⁽³⁾	dB(A)	69	71	61	67	68	72	74	75	75	76
HRA (Standard)		L260	L320	L450	L480	L480	2xL260	2xL320	2xL450	2xL450	2xL480
SPL outdoor unit STD ⁽⁴⁾	dB(A)	46	46	46	48	48	2x46	2x46	2x46	2x46	2x48
HRA/LS (Low noise)		L260	L400	L400	L450	L480	2xL260	2xL400	2xL400	2xL450	2xL480
SPL outdoor unit LS ⁽⁴⁾	dB(A)	39	39	39	41	41	2x39	2x39	2x39	2x41	2x41

Performance refer to the following conditions:
 (1) 24°C db, 17,1°C wb; 50% R.H. - 45°C condensing
 (2) When water conductivity is between 350-750 uS/cm³

(3) Sound pressure level at 1 mt in free field
 (4) Sound pressure level at 10 mt in free field (EN13487)