

next

CLOSE CONTROL AIR CONDITIONERS / HEAT PUMPS





next/under

GENERAL FEATURES

The **neXt** series air conditioners are the best answer to the need of a precise control of the thermo-hygrometric and air purity conditions in the modern and sophisticated Hi-Tech installations and in the high quality "comfort" applications, granting the optimal environment for electronic equipment to work in and operators wealth.

Computer rooms, telephone exchanges, internet hotels, museums, shopping centres are just some of the typical applications of **neXt** units, whose efficiency, silentness and versatility features are appreciated by the most qualified users worldwide.



HIGH DENSITY

Thanks to the layout optimisation of components and accessories, the **neXt** air conditioners can grant a high cooling density for those situations where the space organization becomes a key-factor same as the capacity. The cooling capacity per unit is up to **60 kW per square meter**.

VERSIONS:

DX (R407C)

Cooling capacity 6,7 ÷ 97,0 kW

Direct expansion air conditioner in Under and Over versions, for remote air cooled condenser matching.

DX.P (R407C)

Cooling capacity 7,2 ÷ 102,1 kW

Heating capacity 5,5 ÷ 90,4 kW

Heat pump air conditioner in Over versions, for remote air cooled condenser matching.

DW (R407C)

Cooling capacity 7,0 ÷ 104,1 kW

Direct expansion air conditioner in Under and Over versions, with built-in water cooled condenser.

DW.P (R407C)

Cooling capacity 7,5 ÷ 112,0 kW

Heating capacity 6,3 ÷ 103,0 kW

Heat pump air conditioner in Over versions, with built-in water cooled condenser.

CW.S

Cooling capacity 10,3 ÷ 104,4 kW

Chilled water feeding air conditioner in Under and Over versions.

CW.K

Cooling capacity 13,1 ÷ 161,0 kW

High density chilled water feeding air conditioner in Under and Over versions.

CW.KC *new*

Cooling capacity 13,1 ÷ 161,0 kW

High density chilled water feeding air conditioner in Under and Over versions, with centrifugal fans.

neXt air conditioners are available in Over and Under version, *with single or double circuit (DX version)*.

Up-flow air delivery (Over)

The air distribution is from the top of the unit directly in to the room.

The air flow in each area is predetermined during the design stage and it is not dependent on the actual state of the load to be dissipated. The system is normally applied in Comfort plants and in those plants having a defined low/medium room thermal loads density.

Down-flow air delivery (Under)

The air distribution is from the bottom by means of the plenum between the building floor and the raised floor.

This solution is usually applied in hi-tech. room air conditioning and it is most favourable when load is uniformly distributed in all areas of the room.

MAIN COMPONENTS

- Base and housing in epoxy painted aluminium profile frame and panels in galvanized steel sheet externally coated with PVC film.
- Plug fans
- Scroll compressor (DX – DW)
- Refrigerant circuit: single or double DC (DX)
- Cycle reversing valve (DX.P – DW.P)
- 3-way proportional cooling valve with emergency manual control (CW – CW.K)
- Electrical box in separate compartment
- Main switch with door lock safety
- MP.COM microprocessor control



next/OVER

MAIN OPTIONAL ACCESSORIES

- Serial port
- Remote air cooled condenser (DX - DX.P)
- EC fans (electronically commutated)
- Electric or hot water heating system
- Humidification and dehumidification system
- Compressor capacity control (DX – DW)
- Free-cooling system (DW)
- Extra-circuit system (DX – DW – CW)
- Hot gas re-heating system (DX-DW)
- Plenum on air delivery
- High efficiency filters F5/F6/F7/F9
- Compressor cap for noise reduction

next

TECHNICAL DATA AND NOMINAL PERFORMANCES


neXt.DX under/over

MODEL		007 Z1	009 Z1	011 Z1	013 Z1	015 Z1	017 Z1	021 Z1	023 Z1	025 Z1	029 Z1	033 Z1
Size		H1	H1	H1	H1	H2	H2	H3	H3	H4	H4	H4
Cooling capacity (1)	kW	6,6	8,8	9,6	10,7	13,7	16,4	19,3	20,9	25,0	29,2	32,5
Air flow	m ³ /h	2273	2653	2653	2653	3955	3955	5460	5460	7160	7440	7440
Compressors	n.	1	1	1	1	1	1	1	1	1	1	1
Weight												
Over	kg	186	189	190	191	246	247	306	307	421	421	422
Under	kg	192	196	197	198	256	258	317	318	441	441	442
Sound pressure (5)												
Over	dB(A)	50,4	51,4	51,4	51,4	57,0	57,0	57,8	57,8	60,6	64,7	64,7
Under	dB(A)	57,4	60,7	60,7	60,7	67,3	67,3	67,5	67,5	69,2	72,2	72,2

MODEL		026 Z2	032 Z2	045 Z1	049 Z1	042 Z2	048 Z2	052 Z2	060 Z2	072 Z2	082 Z2	092 Z2	100 Z2
Size		H5	H5	H5	H5	H6	H6	H6	H6	H7	H7	H7	H7
Cooling capacity (1)	kW	24,5	28,9	43,5	48,1	41,1	45,6	49,5	57,0	69,7	77,7	88,1	97,3
Air flow	m ³ /h	7110	7110	10440	10440	11310	11310	13480	14500	17610	20870	22040	22040
Compressors	n.	2	2	1	1	2	2	2	2	2	2	2	2
Weight													
Over	kg	455	457	476	484	563	565	668	668	770	776	783	812
Under	kg	471	473	492	500	589	591	694	694	803	810	816	845
Sound pressure (5)													
Over	dB(A)	57,6	57,6	66,2	66,2	57,8	57,8	61,2	64,7	64,9	67,0	68,4	68,4
Under	dB(A)	69,1	69,1	74,9	74,9	67,3	67,3	70,8	72,5	73,1	77,9	79,7	79,7


neXt.DX.P over - heat pump

MODEL		007 Z1	009 Z1	011 Z1	013 Z1	015 Z1	017 Z1	021 Z1	023 Z1	025 Z1	029 Z1	033 Z1
Size		H1	H1	H1	H1	H2	H2	H3	H3	H4	H4	H4
Cooling capacity (3)	kW	7,2	9,5	10,4	11,6	14,7	17,7	20,7	22,7	26,9	31,3	34,6
Heating capacity (4)	kW	5,5	8,3	9,6	11,1	13	16,1	17,4	18,9	22,3	28,1	31,5
Air flow	m ³ /h	2273	2653	2653	2653	3955	3955	5460	5460	7160	7440	7440
Compressors	n.	1	1	1	1	1	1	1	1	1	1	1
Weight	kg	190	193	194	195	251	252	312	313	429	429	430
Sound pressure (5)	dB(A)	50,4	51,4	51,4	51,4	57,0	57,0	57,8	57,8	60,6	64,7	64,7

MODEL		026 Z2	032 Z2	045 Z1	049 Z1	042 Z2	048 Z2	052 Z2	060 Z2	072 Z2	082 Z2	092 Z2	100 Z2
Size		H5	H5	H5	H5	H6	H6	H6	H6	H7	H7	H7	H7
Cooling capacity (3)	kW	26,2	30,9	44,6	48,5	43,4	46,1	50,6	61,2	73,8	83,6	94,6	105,0
Heating capacity (4)	kW	25,4	32,9	39,5	44,1	36,5	39,0	41,8	52,8	65,8	71,4	81,1	90,4
Air flow	m ³ /h	7110	7110	10440	10440	11310	11310	13480	14500	17610	20870	22040	22040
Compressors	n.	2	2	1	1	2	2	2	2	2	2	2	2
Weight	kg	464	466	486	494	574	576	681	681	785	793	799	828
Sound pressure (5)	dB(A)	57,6	57,6	66,2	66,2	57,8	57,8	61,2	64,7	64,9	67,0	68,4	68,4

(1) Referred to entering air at 24°C with 50%RH and air to the condenser at 35°C

(3) Referred to entering air at 27°C with 47%RH and air to the condenser at 35°C

(4) Referred to entering air at 20°C with and outdoor air at 7°C

(5) Sound pressure 1m far in free field according to ISO3744 norm.

POWER SUPPLY: 400.3.50+N

TECHNICAL DATA AND NOMINAL PERFORMANCES

neXt.DW under/over

MODEL		007 Z1	009 Z1	011 Z1	013 Z1	015 Z1	017 Z1	021 Z1	023 Z1	025 Z1	029 Z1	033 Z1
Size		H1	H1	H1	H1	H2	H2	H3	H3	H4	H4	H4
Cooling capacity (1)	kW	7,0	9,2	10,3	11,7	14,9	17,3	20,4	22,6	27,0	31,5	35,1
Air flow	m ³ /h	2273	2653	2653	2653	3955	3955	5460	5460	7160	7440	7440
Compressors	n.	1	1	1	1	1	1	1	1	1	1	1
Weight												
Over	kg	195	199	201	204	261	265	324	328	448	454	455
Under	kg	211	216	218	221	271	275	339	339	468	474	475
Sound pressure (5)												
Over	dB(A)	50,4	51,4	51,4	51,4	57,0	57,0	57,8	57,8	60,6	64,7	64,7
Under	dB(A)	57,4	60,7	60,7	60,7	67,3	67,3	67,5	67,5	69,2	72,2	72,2

MODEL		026 Z2	032 Z2	045 Z1	049 Z1	042 Z2	048 Z2	052 Z2	060 Z2	072 Z2	082 Z2	092 Z2	100 Z2
Size		H5	H5	H5	H5	H6	H6	H6	H6	H7	H7	H7	H7
Cooling capacity (1)	kW	26,9	31,3	47,1	52,6	44,5	49,2	54,4	63,4	75,6	84,1	95,0	104,0
Air flow	m ³ /h	7110	7110	10440	10440	11310	11310	13480	14500	17610	20870	22040	22040
Compressors	n.	2	2	1	1	2	2	2	2	2	2	2	2
Weight													
Over	kg	483	490	512	519	599	601	707	711	819	830	840	869
Under	kg	498	506	528	535	625	627	733	737	860	865	872	902
Sound pressure (5)													
Over	dB(A)	57,6	57,6	57,6	66,2	66,2	66,2	57,8	57,8	57,8	57,8	61,2	61,2
Under	dB(A)	69,1	69,1	69,1	74,9	74,9	74,9	67,3	67,3	67,3	67,3	70,8	70,8

neXt.DW.P over - heat pump

MODEL		007 Z1	009 Z1	011 Z1	013 Z1	015 Z1	017 Z1	021 Z1	023 Z1	025 Z1	029 Z1	033 Z1
Size		H1	H1	H1	H1	H2	H2	H3	H3	H4	H4	H4
Cooling capacity (3)	kW	7,5	10,0	11,1	12,6	16,0	18,6	22,0	24,3	29,1	33,9	37,7
Heating capacity (4)	kW	6,3	8,6	10,1	11,6	14,7	17,5	20,2	22,7	25,9	30,8	34,6
Air flow	m ³ /h	2273	2653	2653	2653	3955	3955	5460	5460	7160	7440	7440
Compressors	n.	1	1	1	1	1	1	1	1	1	1	1
Weight	kg	199	203	205	208	266	270	330	335	457	463	464
Sound pressure (5)	dB(A)	50	50,4	51,4	51,4	57	57	56,5	57,8	57,8	60,6	64,7

MODEL		026 Z2	032 Z2	045 Z1	049 Z1	042 Z2	048 Z2	052 Z2	060 Z2	072 Z2	082 Z2	092 Z2	100 Z2
Size		H5	H5	H5	H5	H6	H6	H6	H6	H7	H7	H7	H7
Cooling capacity (3)	kW	29,0	33,7	50,8	56,5	47,7	53,1	58,5	68,3	81,3	91,6	102,0	112,0
Heating capacity (4)	kW	27,6	33,3	45,0	53,8	42,5	46,8	53,2	63,5	73,5	81,1	88,5	103,0
Air flow	m ³ /h	7110	7110	10440	10440	11310	11310	13480	14500	17610	20870	22040	22040
Compressors	n.	2	2	1	1	2	2	2	2	2	2	2	2
Weight	kg	493	500	522	529	611	613	721	725	835	845	857	886
Sound pressure (5)	dB(A)	64,7	57,6	57,6	66,2	66,2	57,8	57,8	61,2	64,7	64,9	67,0	68,4

(1) Referred to entering air at 24°C with 50%RH and water to the condenser 30-36°C

(3) Referred to entering air at 27°C with 47%RH and water to the condenser 15-30°C

(4) Referred to entering air at 20°C and water to the condenser 15-7°C

(5) Sound pressure 1m far in free field according to ISO3744 norm.

POWER SUPPLY: 400.3.50+N

TECHNICAL DATA AND NOMINAL PERFORMANCES

neXt.CW under/over

MODEL		012	015	022	031	044	066	078	094	114
Size		H1	H2	H3	H4	H5	H6	H6	H7	H8
Cooling capacity (1)	kW	10,3	14,5	22,0	29,6	39,9	59,5	74,6	89,4	104,0
Air flow	m ³ /h	2653	3955	5460	7440	10440	15060	14850	22040	29050
Weight										
Over	kg	149	193	247	306	350	440	455	524	646
Under	kg	166	204	257	326	365	466	481	557	683
Sound pressure (2)										
Over	dB(A)	47,2	53,8	54,0	58,7	61,4	61,9	61,7	66,2	64,2
Under	dB(A)	42,6	49,2	49,4	54,1	56,8	57,3	57,1	61,6	59,6

neXt.CW.K under/over

MODEL		013	020	029	046	068	104	120	142	174
Size		H1	H2	H3	H4	H5	H6	H6	H7	H8
Cooling capacity (1)	kW	13,1	19,1	27,7	41,8	63,6	94,8	112,0	135,0	161,0
Air flow	m ³ /h	2653	3870	5460	8460	12390	18600	19040	25340	30100
Weight										
Over	kg	155	200	258	295	390	495	515	630	730
Under	kg	172	211	268	313	410	518	538	665	780
Sound pressure (2)										
Over	dB(A)	47,2	53,8	54,0	56,7	53,6	61,8	63,1	61,4	65,6
Under	dB(A)	42,6	49,2	49,4	52,1	49,0	57,2	58,5	56,8	61,0

neXt.CW.KC under/over

MODEL		013	020	029	046	068	104	120	142	174
Size		H1	H2	H3	H4	H5	H6	H6	H7	H8
Cooling capacity (1)	kW	13,1	19,1	27,7	41,8	63,6	94,8	112,0	135,0	161,0
Air flow	m ³ /h	2653	3870	5460	8460	12390	18600	19040	25340	30100
Weight										
Over	kg	155	200	258	330	430	550	570	680	780
Under	kg	172	211	268	348	450	573	593	715	830
Sound pressure (2)										
Over	dB(A)	47,2	53,8	54,0	60,5	60,7	64,9	65,8	65,3	67,8
Under	dB(A)	42,6	49,2	49,4	55,9	56,1	60,3	61,2	60,7	63,2

(1) Referred to entering air at 24°C with 50%RH and chilled water temperature 7/12,5°C

(2) Sound pressure 1m far in free field according to ISO3744 norm.

POWER SUPPLY: 400.3.50+N

DIMENSIONS (mm)

Size	a	b	c
H1	650	650	1.925
H2	785	650	1.925
H3	1.085	750	1.925
H4	1.320	860	1.980
H5	1.620	860	1.980
H6	2.155	860	1.980
H7	2.690	860	1.980
H8	3.225	860	1.980

