

coldpack

WATER COOLED CHILLERS / HEAT PUMPS AND MOTOEVAPORATING UNITS





coldpack.w/j

GENERAL FEATURES

The range **COLDPACK** chillers allows to meet all air-conditioning requirements in residential, commercial and hi-tech applications, as well as in the tertiary sector. These machines are available in a full range of dimensions, models and versions, with a rich variety of accessories and optional, so that they can become the ideal solution for installation in office buildings, public buildings, trade centres, industrial buildings, wine-cellars as well as for a variety of other applications in the hi-tech and process sector.

Heavy-duty construction, thanks to their design and to the choice of materials and components, that reflect the policies followed for the machines meant for critical environments, where they are required to operate 365 days/year. In this way, continuous and regular operation of the machines is ensured under any load conditions.

VERSIONS :

COLDPACK.W (R407C) *new*

Cooling capacity 32,2 ÷ 513,0 kW

Liquid chiller equipped with scroll compressor and built-in water cooled condenser.

COLDPACK.W.P (R407C) *new*

Cooling capacity 33,9 ÷ 606,0 kW

Heating capacity 35,7 ÷ 604,0 kW

Heat pump liquid chiller equipped with scroll compressor and built-in water cooled condenser.

COLDPACK.A (R407C) *new*

Cooling capacity 29,9 ÷ 539,0 kW

Motoevaporating unit equipped with scroll compressor for remote air cooled condenser matching.

COLDPACK.A.P (R407C)

Cooling capacity 30,2 ÷ 369,0 kW

Heating capacity 31,6 ÷ 398,0 kW

Heat pump motoevaporating unit equipped with scroll compressor for remote air cooled condenser matching.

MAIN COMPONENTS

- Housing in epoxy painted galvanized steel sheet
- Scroll compressors
- Welded plate evaporator
- Welded plate condenser
- Cycle reversing valve (heat pump)
- IDEA® defrosting system (heat pump)
- MP.COM microprocessor control
- Antifreeze system
- Water flow control by pressure switch
- Pump-Down stop system
- Electrical box in separate compartment
- Main switch with door lock safety

MAIN OPTIONAL ACCESSORIES

- Water regulating valve (COLDPACK.W)
- Remote control panel
- Partial or total heat reclaim
- Serial port
- Remote air cooled condenser (COLDPACK.A)

Compact dimensions, limited weights, easy transport and handling to shorten installation time. Many models can be transported in common lifts and cross standard doors without any difficulty.

IDEA® defrosting system

COLDPACK.A.P version

“Patented” defrosting system with dynamic reading of working parameters. Thanks to proprietary software it senses the real presence of brine on the coil starting defrosting cycles only in that situation. This brings a remarkable energy saving (more than 20-30% on the average) and a higher working continuity compared with traditional systems.

Water/water heat pump

The COLDPACK.W.P. version is a water cooled heat pump chiller, with reverse cycle on refrigerant. This proposal allows to avoid the inversion on the hydraulic circuit, making easy the installation and the water distribution.

Two energy efficiency levels

- single refrigeration circuit and several compressors in parallel. This version allows to achieve high energy efficiency during partial load working mode (*S version*).
- double refrigeration circuit, with energy efficiency in line with the top levels of the market (*D version*).



TECHNICAL DATA AND NOMINAL PERFORMANCES

new COLDPACK.W single circuit - water cooled

MODEL		T.29	T.35	T.43	T.50	T.55	T.68	T.84	T.110	T.130	T.160	T.200	T.260
		Z1	Z1	Z1	Z2-S	Z2-S	Z2-S	Z2-S	Z2-S	Z2-S	Z2-S	Z3-S	Z3-S
Size		J4	J4	J5	J5	J5	J6	J6	J7	J7	J8	J8	J9
Cooling capacity (1)	kW	32,2	41,4	47,4	52,0	55,1	76,3	91,4	114,0	142,0	182,0	219,0	289,0
Compressors	n.	1	1	1	2	2	2	2	2	2	2	3	3
Power input (1)	kW	6,9	9,3	10,9	13,0	15,5	21,1	22,7	35,4	40,3	49,6	58,4	68,6
Gas circuits	n.	1	1	1	1	1	1	1	1	1	1	1	1
Weight	kg	260	280	360	465	465	490	615	720	740	990	1150	1250
Sound pressure (2)	dB(A)	54,0	56,0	56,0	57,0	57,0	59,0	59,0	62,0	64,0	66,0	65,8	67,8

new COLDPACK.W double circuit - water cooled

MODEL		T.50	T.55	T.68	T.84	T.110	T.130	T.160	T.220	T.270	T.330	T.400	T.470	T.510
		Z2-D	Z2-D	Z2-D	Z2-D	Z2-D	Z2-D	Z2-D	Z4-D	Z4-D	Z4-D	Z6-D	Z6-D	Z6-D
Size		J5	J5	J6	J6	J7	J7	J8	J8	J9	J9	J10	J10	J10
Cooling capacity (1)	kW	53,1	60,8	80,5	91,4	123,0	150,0	187,0	238,0	304,0	381,0	418,0	472,0	513,0
Compressors	n.	2	2	2	2	2	2	2	4	4	4	6	6	6
Power input (1)	kW	12,6	14,8	19,4	22,5	31,3	37,8	47,9	64,0	72,8	92,4	105,0	114,0	125,0
Gas circuits	n.	2	2	2	2	2	2	2	2	2	2	2	2	2
Weight	kg	500	500	525	650	760	780	1000	1030	1420	1550	2110	2220	2270
Sound pressure (2)	dB(A)	57,0	57,0	59,0	59,0	62,0	64,0	66,0	65,0	67,0	69,0	68,8	69,8	70,8

(1) Referred to chilled water temperature 12/7°C and condenser water inlet temperature at 30°C

(2) Sound pressure 1m far in free field conditions according to ISO3744 norms

POWER SUPPLY: 400.3.50+N

new COLDPACK.W.P single circuit - heat pump - water/water

MODEL		T.29	T.35	T.43	T.50	T.55	T.68	T.84	T.110	T.130	T.160	T.200	T.260
		Z1	Z1	Z1	Z2-S	Z2-S	Z2-S	Z2-S	Z2-S	Z2-S	Z2-S	Z3-S	Z3-S
Size		J4	J4	J5	J5	J5	J6	J6	J7	J7	J8	J8	J9
Cooling capacity (1)	kW	33,9	43,6	50,0	54,8	58,0	80,4	96,4	120,0	154,0	193,0	233,0	305,0
Heating capacity (2)	kW	35,7	43,6	53,7	62,0	70,2	86,9	105,0	137,0	168,0	206,0	247,0	313,0
Compressors	n.	1	1	1	2	2	2	2	2	2	2	3	3
Power input (1)	kW	5,7	7,8	9,2	10,8	12,8	17,7	19,1	29,5	34,1	41,8	49,4	57,9
Power input (2)	kW	9,2	11,6	14,2	16,5	19,3	24,0	28,8	38,4	47,6	56,2	70,5	81,6
Gas circuits	n.	1	1	1	1	1	1	1	1	1	1	1	1
Weight	kg	268	288	368	475	475	500	630	750	750	1030	1060	1300
Sound pressure (3)	dB(A)	54,0	56,0	56,0	57,0	57,0	59,0	59,0	62,0	64,0	66,0	65,8	67,8

(1) Referred to chilled water temperature 12/7°C and condenser water inlet temperature at 30°C

(2) Referred to hot water temperature 40/45°C and chilled water outlet temperature at 7°C

(3) Sound pressure 1m far in free field conditions according to ISO3744 norms

POWER SUPPLY: 400.3.50+N

TECHNICAL DATA AND NOMINAL PERFORMANCES

new  **COLDPACK.W.P** double circuit - heat pump - water/water

MODEL		T.50	T.55	T.68	T.84	T.110	T.130	T.160	T.220	T.270	T.330	T.400	T.470	T.510
		Z2-D	Z2-D	Z2-D	Z2-D	Z2-D	Z2-D	Z2-D	Z4-D	Z4-D	Z4-D	Z6-D	Z6-D	Z6-D
Size		J5	J5	J6	J6	J7	J7	J8	J8	J9	J9	J10	J10	J10
Cooling capacity (1)	kW	55,9	63,9	84,6	96,2	129,0	160,0	197,0	251,0	323,0	400,0	498,0	560,0	606,0
Heating capacity (2)	kW	60,0	68,6	85,8	102,0	135,0	165,0	203,0	259,0	333,0	411,0	495,0	556,0	604,0
Compressors	n.	2	2	2	2	2	2	2	4	4	4	6	6	6
Power input (1)	kW	10,5	12,2	16,3	18,9	26,2	32,1	40,5	53,6	61,8	77,9	87,7	95,3	104,0
Power input (2)	kW	16,5	19,1	23,6	28,7	37,5	46,6	55,4	76,0	92,1	110,0	138,0	150,0	164,0
Gas circuits	n.	2	2	2	2	2	2	2	2	2	2	2	2	2
Weight	kg	515	515	540	676	805	825	1060	1110	1510	1650	2110	2220	2270
Sound pressure (3)	dB(A)	57,0	57,0	59,0	59,0	62,0	64,0	66,0	65,0	67,0	69,0	68,8	69,8	70,8

(1) Referred to chilled water temperature 12/7°C and condenser water inlet temperature at 30°C

(2) Referred to hot water temperature 40/45°C and chilled water outlet temperature at 7°C

(3) Sound pressure 1m far in free field conditions according to ISO3744 norms

POWER SUPPLY: 400.3.50+N

new  **COLDPACK.A** double circuit - air cooled motoevaporating unit

MODEL		T.50	T.55	T.68	T.84	T.110	T.130	T.160	T.220	T.270	T.330	T.400	T.470	T.510
		Z2-D	Z2-D	Z2-D	Z2-D	Z2-D	Z2-D	Z2-D	Z4-D	Z4-D	Z4-D	Z6-D	Z6-D	Z6-D
Size		J5	J5	J6	J6	J7	J7	J8	J8	J9	J9	J10	J10	J10
Cooling capacity (1)	kW	50,9	58,9	78,0	89,4	121,0	148,0	185,0	239,0	295,0	367,0	438,0	495,0	539,0
Compressors	n.	2	2	2	2	2	2	2	4	4	4	6	6	6
Power input (1)	kW	13,3	15,2	20,0	23,2	31,6	38,4	48,2	63,2	76,7	96,4	121,0	133,0	145,0
Gas circuits	n.	2	2	2	2	2	2	2	2	2	2	2	2	2
Weight	kg	445	445	470	515	700	710	930	950	1310	1420	1980	2060	2110
Sound pressure (2)	dB(A)	57,0	57,0	59,0	59,0	62,0	64,0	66,0	65,0	67,0	69,0	68,8	69,8	70,8
Remote condenser														
TEAM.MATE DX.A	2 x	M.31	M.37	M.50	M.50	M.79	M.105	M.118	M.145	T.260 L	T.260 L	--	--	--

new  **COLDPACK.A** single circuit - air cooled motoevaporating unit

MODEL		T.29	T.35	T.43	T.50	T.55	T.68	T.84	T.110	T.130	T.160	T.200	T.260
		Z1	Z1	Z1	Z2-S	Z2-S	Z2-S	Z2-S	Z2-S	Z2-S	Z2-S	Z3-S	Z3-S
Size		J4	J4	J5	J5	J5	J6	J6	J7	J7	J8	J8	J9
Cooling capacity (1)	kW	29,9	39,1	45,3	50,9	58,9	77,5	89,7	121,0	148,0	184,0	220,0	277,0
Compressors	n.	1	1	1	2	2	2	2	2	2	2	3	3
Power input (1)	kW	7,6	10,0	11,5	13,3	15,2	20,0	23,2	31,6	38,4	48,2	57,5	72,3
Gas circuits	n.	1	1	1	1	1	1	1	1	1	1	1	1
Weight	kg	243	260	352	420	420	445	490	670	680	910	1060	1140
Sound pressure (2)	dB(A)	54,0	56,0	56,0	57,0	57,0	59,0	59,0	62,0	64,0	66,0	65,8	67,8
Remote condenser													
TEAM.MATE DX.A	1 x	M.37	M.50	M.50	M.72	M.72	M.105	M.118	M.145	M.158	T.260 L	T.260 D	T.390 L

(1) Referred to chilled water temperature 12/7°C and air to the condenser at 35°C

(2) Sound pressure 1m far in free field conditions according to ISO3744 norms

POWER SUPPLY: 400.3.50+N

TECHNICAL DATA AND NOMINAL PERFORMANCES



COLDPACK.A.P single circuit - air cooled heat pump motoevaporating unit

MODEL		T.29 Z1	T.35 Z1	T.43 Z1	T.50 Z2-S	T.55 Z2-S	T.68 Z2-S	T.84 Z2-S	T.110 Z2-S	T.130 Z2-S	T.160 Z2-S
Size		J4	J4	J5	J5	J5	J6	J6	J7	J7	J8
Cooling capacity (1)	kW	30,2	39,4	45,4	51,5	59,6	78,2	90,1	121,0	149,0	185,0
Heating capacity (2)	kW	31,6	41,8	47,7	53,9	62,4	82,3	95,0	128,0	157,0	197,0
Compressors	n.	1	1	1	2	2	2	2	2	2	2
Power input (1)	kW	7,7	10,1	11,7	13,3	15,4	20,3	23,4	31,9	38,7	48,8
Power input (2)	kW	8,5	11,2	13	15,2	17,7	23,4	26,4	36,6	44,1	54,8
Gas circuits	n.	1	1	1	1	1	1	1	1	1	1
Weight	kg	251	268	360	430	430	455	500	690	700	930
Sound pressure (3)	dB(A)	54,0	56,0	56,0	57,0	57,0	59,0	59,0	62,0	64,0	66,0



COLDPACK.A.P double circuit - air cooled heat pump motoevaporating unit

MODEL		T.50 Z2-D	T.55 Z2-D	T.68 Z2-D	T.84 Z2-D	T.110 Z2-D	T.130 Z2-D	T.160 Z2-D	T.220 Z4-D	T.270 Z4-D	T.330 Z4-D
Size		J5	J5	J6	J6	J7	J7	J8	J8	J9	J9
Cooling capacity (1)	kW	51,6	59,6	78,6	91,2	123,0	151,0	187,0	240,0	296,0	369,0
Heating capacity (2)	kW	54,1	62,7	83,0	95,7	130,0	160,0	199,0	255,0	318,0	398,0
Compressors	n.	2	2	2	2	2	2	2	4	4	4
Power input (1)	kW	13,3	15,4	20,3	23,4	32,0	38,8	48,9	63,8	77,5	97,6
Power input (2)	kW	15,0	17,5	22,8	25,6	34,8	42,1	53,2	73,2	85,2	107,0
Gas circuits	n.	2	2	2	2	2	2	2	2	2	2
Weight	kg	455	455	480	525	720	730	950	990	1350	1460
Sound pressure (3)	dB(A)	57,0	57,0	59,0	59,0	62,0	64,0	66,0	65,0	67,0	69,0

- (1) Referred to chilled water temperature 12/7°C and condensing temperature at 45°C
 (2) Referred to hot water inlet temperature 40/45°C and evaporating temperature at -3°C
 (3) Sound pressure 1m far in free field conditions according to ISO3744 norms
 POWER SUPPLY: 400.3.50+N

DIMENSIONS (mm)



COLDPACK "J"

Size	a	b	c
J4	1.000	650	1.400
J5 - J6	1.200	650	1.500
J7	1.200	750	1.700
J8 - J9	1.800	1.200	1.740

