

SPC HIDROS - Technical Data Sheet Cold Room Units

INTRODUCTION

SPC Hidros Cold Room Units are high-performance dehumidifiers for use in industrial and commercial applications. They are designed to operate in low temperature environments down to -5°C.

The range includes two models. CH units offer a standard dehumidifier design. CHZ units have external condensers to provide temperature control as well as dehumidification capabilities. Each model is available in six sizes: 85, 150, 180, 250, 320, 400. Case designs are shown in the opposite pictures.

All SPC Hidros units are fully assembled, wired and tested. They are leak tested under pressure before being charged with refrigerant R407C. Units comply to all relevant European Union Directives and are individually marked with a CE label and provided with a Conformity Declaration.

Installation of SPC Hidros units is simple; once service connections and condensate drains have been connected the unit's installation is complete. Once installed, SPC Hidros units are designed for easy maintenance and service. Each component is readily accessible and easily replaceable.

MAIN COMPONENTS

Casing	Composed of a solid frame and a set of quick release panels (for easy access to internal parts) formed from heavy-gauge galvanised steel sheet, coated with an epoxy based powder paint that is oven baked to increase durability and resistance to corrosion. Drain trays are made of stainless steel.
Compressor	Reciprocating hermetic type, suction gas cooled, direct start, crank case heater, thermal overload protection, with pressure tappings on suction and discharge side. The compressors are mounted on rubber antivibration mounts.
Evaporator	Direct-expansion evaporator coil constructed from copper tubes mechanically expanded into aluminium fins, vertically mounted, with stainless steel condensate tray at the bottom. An air filter is installed on the coil inlet as standard.
Condenser	Condenser coil constructed from copper tubes mechanically expanded into aluminium fins, vertically mounted.
Fan	Centrifugal double inlet fan, statically and dynamically balanced, with direct coupled three speed motor.



Size 85



Sizes 150 & 180



Sizes 250, 320 & 400



External Condenser

Refrigerant Circuit	This consists of a filter drier, expansion device, high and low pressure switches and a set of solenoid valves.
Electrical Board	This consists of compressor fuses, fan fuses, auxiliary circuit fuses, compressor contactor, fan relay, terminal block with connection for remote on-off and hygrostat control and local on-off switch.
Micro-processor	Standard on all units. This controls the unit from the hygrostat and defrost thermostat. It controls the compressor start and stop sequence, defrost cycles and alarms. A dedicated LED panel signals supply presence, running mode, defrost pending or alarm presence.
Defrost Thermostat	Standard on all units. This signals to the microprocessor control that defrost cycle is needed and controls its termination.

ACCESSORIES

Each model of SPC Hidros Cold Room Unit has a range of optional accessories, these are listed below.

ACCESSORIES - CH MODEL

MODEL - CH	85	150	180	250	320	400
Inbuilt Hygrostat (operating humidity: 30-100%)	✓	✓	✓	✓	✓	✓
Remote Hygrostat (operating humidity: 30-100%)	✓	✓	✓	✓	✓	✓
Remote Electric hygrostat	✓	✓	✓	✓	✓	✓
Wall Mounting Version	✓					
Floor Trolley Version	✓			✓	✓	✓
Condensate Pump				✓	✓	✓
Horizontal Discharge Plenum				✓	✓	✓

ACCESSORIES - CHZ MODEL

MODEL - CHZ	85	150	180	250	320	400
Mechanical Hygrostat-Thermostat	✓	✓	✓			
Electronic Hygrostat-Thermostat	✓	✓	✓			
Inbuilt hygrostat (operating humidity: 30-100%)				✓	✓	✓
Remote Hygrostat (operating humidity: 30-100%)				✓	✓	✓
Wall Mounting Version	✓					
Low Noise Remote Condenser	✓	✓	✓			
Condensate Pump				✓	✓	✓
Stainless Steel Frame	✓					

TECHNICAL DATA

The tables below show technical data for the SPC Hidros Cold Room Units. Detailed performance data is supplied overleaf.

TECHNICAL DATA - CH MODEL

MODEL - CH	85	150	180	250	320	400
Moisture Removal Rate (l/24h)	84.4 ⁽¹⁾	155.8 ⁽¹⁾	189.8 ⁽¹⁾	268.3 ⁽¹⁾	356.8 ⁽¹⁾	456.9 ⁽¹⁾
Nominal Absorbed Power - Drying Mode (kW)	2.5 ⁽¹⁾	4.3 ⁽¹⁾	5.4 ⁽¹⁾	6.6 ⁽¹⁾	8.4 ⁽¹⁾	11.1 ⁽¹⁾
Maximum Absorbed Power (kW)	2.7 ⁽²⁾	4.7 ⁽²⁾	5.9 ⁽²⁾	7.2 ⁽²⁾	9.3 ⁽²⁾	12.2 ⁽²⁾
Nominal Absorbed Current (A)	5.4 ⁽¹⁾	12.0 ⁽¹⁾	14.0 ⁽¹⁾	19.0 ⁽¹⁾	20.5 ⁽¹⁾	24.4 ⁽¹⁾
Maximum Absorbed Current (A)	5.9 ⁽²⁾	12.4 ⁽²⁾	14.7 ⁽²⁾	19.9 ⁽²⁾	21.9 ⁽²⁾	26.9 ⁽²⁾
Air Flow (m³/s)	0.528	1.000	1.139	1.430	1.903	2.277
Available Static Pressure (Pa)	50					
Refrigerant	R407C					
Sound Pressure Level (dBa)	62 ⁽⁵⁾	66 ⁽⁵⁾	78 ⁽⁵⁾	72 ⁽⁵⁾	73 ⁽⁵⁾	74 ⁽⁵⁾
Operating Temperature Range (°C)	-1 to 18					
Operating Humidity Range (%)	30 to 99					
Length (mm)	570	1004		1630		
Depth (mm)	700	635		1010		
Height (mm)	850	1283		1410		
Weight (kg)	112	184	188	398	424	451
Power Supply	400 / 3 / 50					

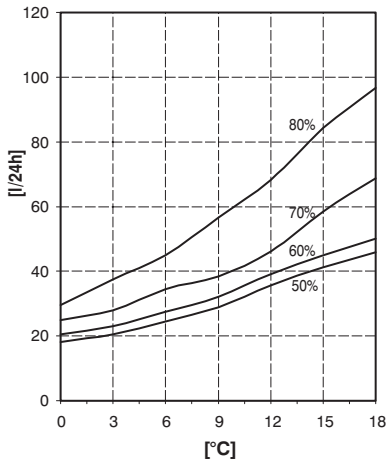
TECHNICAL DATA - CHZ MODEL

MODEL - CHZ	85	150	180	250	320	400
Moisture Removal Rate (l/24h)	84.4 ⁽¹⁾	155.8 ⁽¹⁾	189.8 ⁽¹⁾	268.3 ⁽¹⁾	356.8 ⁽¹⁾	456.9 ⁽¹⁾
Nominal Absorbed Power - Drying Mode (kW)	2.2 ⁽¹⁾	4.9 ⁽¹⁾	6.0 ⁽¹⁾	6.6 ⁽¹⁾	8.41 ⁽¹⁾	11.1 ⁽¹⁾
Cooling Capacity	5.5 ⁽³⁾	10.1 ⁽³⁾	12.4 ⁽³⁾	17.4 ⁽³⁾	23.2 ⁽³⁾	29.9 ⁽³⁾
Nominal Absorbed Power - Cooling Mode(kW)	2.3 ⁽³⁾	4.6 ⁽³⁾	6.1 ⁽³⁾	6.9 ⁽³⁾	8.8 ⁽³⁾	11.5 ⁽³⁾
Maximum Absorbed Power (kW)	2.9 ⁽⁴⁾	5.3 ⁽⁴⁾	6.5 ⁽⁴⁾	8.1 ⁽⁴⁾	10.3 ⁽⁴⁾	13.2 ⁽⁴⁾
Nominal Absorbed Current (A)	7.0 ⁽¹⁾	15.2 ⁽¹⁾	17.2 ⁽¹⁾	16.4 ⁽¹⁾	18.0 ⁽¹⁾	22.8 ⁽¹⁾
Maximum Absorbed Current (A)	7.5 ⁽⁴⁾	15.6 ⁽⁴⁾	17.9 ⁽⁴⁾	17.3 ⁽⁴⁾	19.2 ⁽⁴⁾	24.3 ⁽⁴⁾
Air Flow (m³/s)	0.528	1.000	1.139	2.888	3.806	4.555
Available Static Pressure (Pa)	50			-		
Refrigerant	R407C					
Sound Pressure Level (dBa)	62 ⁽⁵⁾	66 ⁽⁵⁾	67 ⁽⁵⁾	70 ⁽⁵⁾	71 ⁽⁵⁾	72 ⁽⁵⁾
Operating Temperature Range (°C)	-1 to 18			-5 to 18		
Operating Humidity Range (%)	30 to 99					
Length (mm)	570	1004		1630		
Depth (mm)	700	635		1010		
Height (mm)	850	1283		1410		
Weight (kg)	112	184	188	425	442	460
Power Supply	400 / 3 / 50					

- NOTES: (1) Room temperature 15 °C, relative humidity 80%
 (2) Room temperature 18 °C, relative humidity 80%
 (3) Room temperature 15 °C, relative humidity 80%, ambient temperature 35 °C
 (4) Room temperature 18 °C, relative humidity 80%, ambient temperature 35 °C
 (5) At 1m in free field condition over a reflecting surface

PERFORMANCE DATA - CH85

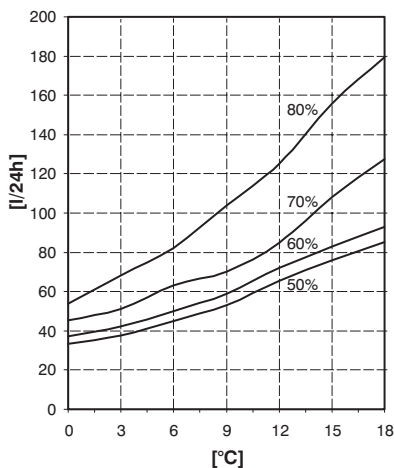
PERFORMANCE CHART



		TEMPERATURE (°C)	0	3	6	9	12	15	18
RELATIVE HUMIDITY	50%	Moisture Removal Rate (l/24h)	18.2	20.5	24.5	29.0	35.7	41.2	46.0
		Absorbed Power (kW)	1.4	1.5	1.7	1.8	2.0	2.1	2.4
		Air Temperature Increase (°C)	2.9	3.3	3.7	4.1	4.7	5.2	5.8
		Ambient Thermal Load (kW)	2.1	2.3	2.6	2.9	3.2	3.6	3.9
	60%	Moisture Removal Rate (l/24h)	20.5	23.1	27.4	32.2	39.2	45.1	50.2
		Absorbed Power (kW)	1.4	1.5	1.7	1.8	2.0	2.1	2.4
		Air Temperature Increase (°C)	3.0	3.4	3.8	4.3	4.8	5.4	5.9
		Ambient Thermal Load (kW)	2.2	2.4	2.7	3.0	3.4	3.7	4.1
	70%	Moisture Removal Rate (l/24h)	24.9	28.1	34.4	38.4	46.1	58.5	68.7
		Absorbed Power (kW)	1.4	1.6	1.7	1.9	2.0	2.2	2.4
		Air Temperature Increase (°C)	3.3	3.7	4.2	4.6	5.2	6.1	6.9
		Ambient Thermal Load (kW)	2.4	2.6	2.9	3.2	3.6	4.1	4.7
	80%	Moisture Removal Rate (l/24h)	29.6	37.4	44.9	56.4	68.2	84.4 ⁽¹⁾	96.6
		Absorbed Power (kW)	1.4	1.6	1.7	1.9	2.0	2.2 ⁽¹⁾	2.4
		Air Temperature Increase (°C)	3.5	4.1	4.7	5.5	6.2	7.2 ⁽¹⁾	8.1
		Ambient Thermal Load (kW)	2.5	2.9	3.2	3.7	4.2	4.9 ⁽¹⁾	5.5

PERFORMANCE DATA - CH150

PERFORMANCE CHART

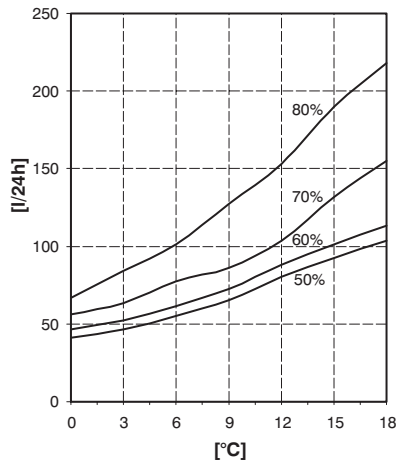


		TEMPERATURE (°C)	0	3	6	9	12	15	18
RELATIVE HUMIDITY	50%	Moisture Removal Rate (l/24h)	33.2	37.5	44.8	53.1	65.5	75.9	85.2
		Absorbed Power (kW)	2.5	2.7	3.0	3.2	3.5	3.8	4.2
		Air Temperature Increase (°C)	2.8	3.1	3.5	3.9	4.5	4.9	5.5
		Ambient Thermal Load (kW)	3.9	4.3	4.8	5.3	5.9	6.5	7.1
	60%	Moisture Removal Rate (l/24h)	37.4	42.2	50.1	59.0	72.1	83.1	93.1
		Absorbed Power (kW)	2.5	2.7	3.0	3.2	3.5	3.8	4.2
		Air Temperature Increase (°C)	2.9	3.2	3.6	4.1	4.6	5.1	5.6
		Ambient Thermal Load (kW)	4.1	4.4	4.9	5.4	6.1	6.7	7.4
	70%	Moisture Removal Rate (l/24h)	45.4	51.2	63.0	70.3	84.7	108.1	127.5
		Absorbed Power (kW)	2.6	2.8	3.1	3.3	3.6	3.9	4.3
		Air Temperature Increase (°C)	3.2	3.5	4.0	4.4	5.0	5.8	6.6
		Ambient Thermal Load (kW)	4.4	4.8	5.4	5.9	6.6	7.5	8.5
	80%	Moisture Removal Rate (l/24h)	54.1	68.3	82.2	103.9	125.4	155.8 ⁽¹⁾	179.3
		Absorbed Power (kW)	2.6	2.8	3.1	3.3	3.6	3.9 ⁽¹⁾	4.3
		Air Temperature Increase (°C)	3.4	3.9	4.5	5.2	6.0	6.9 ⁽¹⁾	7.8
		Ambient Thermal Load (kW)	4.6	5.3	5.9	6.8	7.7	8.9 ⁽¹⁾	10.0

(1) Indicates performance at nominal operating conditions.

PERFORMANCE DATA - CH180

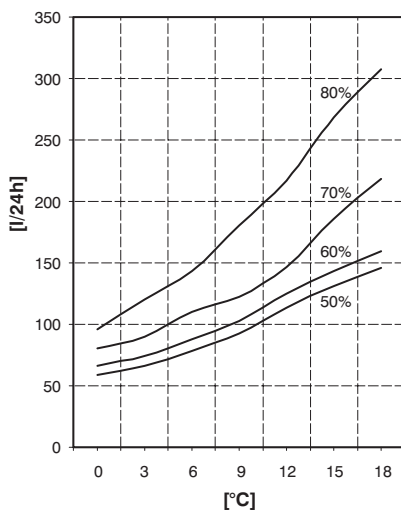
PERFORMANCE CHART



		TEMPERATURE (°C)	0	3	6	9	12	15	18
RELATIVE HUMIDITY	50%	Moisture Removal Rate (l/24h)	41.3	46.4	55.2	65.2	80.2	92.6	103.8
		Absorbed Power (kW)	3.1	3.4	3.7	4.1	4.4	4.8	5.3
		Air Temperature Increase (°C)	3.1	3.4	3.9	4.3	4.9	5.4	6.0
		Ambient Thermal Load (kW)	4.8	5.2	5.8	6.5	7.3	8.0	8.8
	60%	Moisture Removal Rate (l/24h)	46.4	52.2	61.7	72.4	88.2	101.4	113.3
		Absorbed Power (kW)	3.1	3.4	3.7	4.1	4.4	4.8	5.3
		Air Temperature Increase (°C)	3.2	3.6	4.0	4.5	5.1	5.6	6.2
		Ambient Thermal Load (kW)	4.9	5.4	6.0	6.7	7.5	8.3	9.1
	70%	Moisture Removal Rate (l/24h)	56.4	63.3	77.5	86.2	103.6	131.8	155.2
		Absorbed Power (kW)	3.2	3.5	3.9	4.2	4.6	5.0	5.5
		Air Temperature Increase (°C)	3.5	3.9	4.4	4.8	5.5	6.3	7.2
		Ambient Thermal Load (kW)	5.3	5.8	6.6	7.2	8.1	9.3	10.4
	80%	Moisture Removal Rate (l/24h)	67.1	84.4	101.1	127.5	153.3	189.8 ⁽¹⁾	218.3
		Absorbed Power (kW)	3.2	3.5	3.9	4.2	4.6	4.9 ⁽¹⁾	5.5
		Air Temperature Increase (°C)	3.7	4.3	4.9	5.7	6.5	7.5 ⁽¹⁾	8.5
		Ambient Thermal Load (kW)	5.6	6.5	7.3	8.4	9.5	10.9 ⁽¹⁾	12.2

PERFORMANCE DATA - CH250

PERFORMANCE CHART

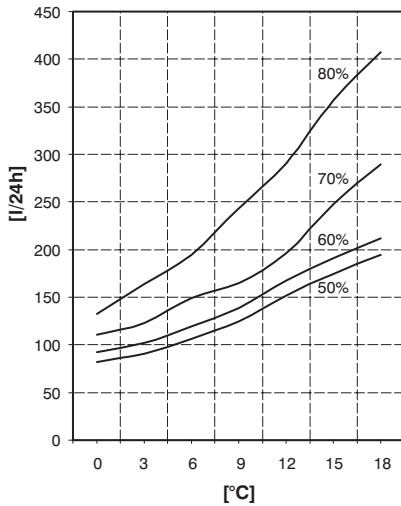


		TEMPERATURE (°C)	0	3	6	9	12	15	18
RELATIVE HUMIDITY	50%	Moisture Removal Rate (l/24h)	59.0	66.1	78.5	92.4	113.4	130.8	146.3
		Absorbed Power (kW)	4.4	4.8	5.2	5.6	6.0	6.5	7.1
		Air Temperature Increase (°C)	1.7	1.9	2.1	2.4	2.7	2.9	3.2
		Ambient Thermal Load (kW)	6.7	7.3	8.0	8.9	9.9	10.9	11.9
	60%	Moisture Removal Rate (l/24h)	66.4	74.4	87.7	102.8	124.8	143.2	159.6
		Absorbed Power (kW)	4.4	4.8	5.2	5.6	6.0	6.5	7.1
		Air Temperature Increase (°C)	1.8	2.0	2.2	2.4	2.7	3.0	3.3
		Ambient Thermal Load (kW)	6.9	7.5	8.3	9.2	10.2	11.2	12.3
	70%	Moisture Removal Rate (l/24h)	80.5	90.1	110.0	122.1	146.4	186.0	218.5
		Absorbed Power (kW)	4.5	4.9	5.3	5.7	6.2	6.7	7.2
		Air Temperature Increase (°C)	1.9	2.1	2.4	2.6	3.0	3.4	3.9
		Ambient Thermal Load (kW)	7.4	8.1	9.1	9.9	11.0	12.6	14.1
	80%	Moisture Removal Rate (l/24h)	95.8	120.1	143.5	180.5	216.7	268.3 ⁽¹⁾	307.3
		Absorbed Power (kW)	4.5	4.9	5.3	5.7	6.2	6.6 ⁽¹⁾	7.2
		Air Temperature Increase (°C)	2.1	2.4	2.7	3.1	3.5	4.1 ⁽¹⁾	4.6
		Ambient Thermal Load (kW)	7.9	9.0	10.1	11.5	13.0	14.9 ⁽¹⁾	16.7

(1) Indicates performance at nominal operating conditions.

PERFORMANCE DATA - CH320

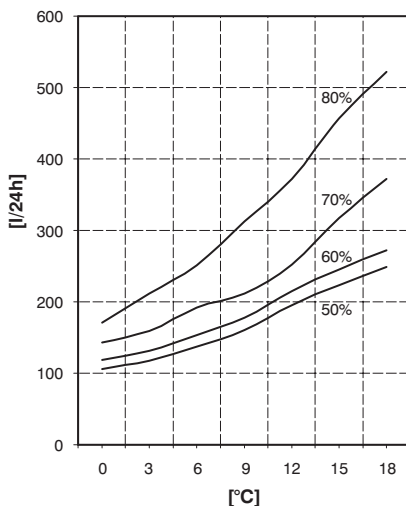
PERFORMANCE CHART



		TEMPERATURE (°C)	0	3	6	9	12	15	18
RELATIVE HUMIDITY	50%	Moisture Removal Rate (l/24h)	81.8	90.7	106.8	124.7	152.2	174.4	194.3
		Absorbed Power (kW)	5.5	6.0	6.6	7.1	7.7	8.3	9.1
		Air Temperature Increase (°C)	1.7	1.9	2.1	2.3	2.6	2.9	3.2
		Ambient Thermal Load (kW)	8.5	9.3	10.2	11.3	12.7	13.9	15.3
	60%	Moisture Removal Rate (l/24h)	92.0	102.1	119.3	138.6	167.6	191.0	211.9
		Absorbed Power (kW)	5.5	6.0	6.6	7.1	7.7	8.3	9.1
		Air Temperature Increase (°C)	1.8	1.9	2.2	2.4	2.7	3.0	3.3
		Ambient Thermal Load (kW)	8.8	9.6	10.6	11.7	13.1	14.4	15.8
	70%	Moisture Removal Rate (l/24h)	111.2	123.3	149.3	164.5	196.0	247.6	289.8
		Absorbed Power (kW)	5.7	6.2	6.7	7.3	7.9	8.9	9.3
		Air Temperature Increase (°C)	1.9	2.1	2.4	2.6	2.9	3.4	3.8
		Ambient Thermal Load (kW)	9.5	10.4	11.6	12.6	14.1	16.3	18.3
	80%	Moisture Removal Rate (l/24h)	132.3	164.4	194.8	243.2	290.0	356.8 ⁽¹⁾	407.6
		Absorbed Power (kW)	5.7	6.2	6.7	7.3	7.9	8.4 ⁽¹⁾	9.3
		Air Temperature Increase (°C)	2.1	2.4	2.7	3.1	3.5	4.1 ⁽¹⁾	4.6
		Ambient Thermal Load (kW)	10.1	11.5	13.0	14.9	16.9	19.3 ⁽¹⁾	21.7

PERFORMANCE DATA - CH400

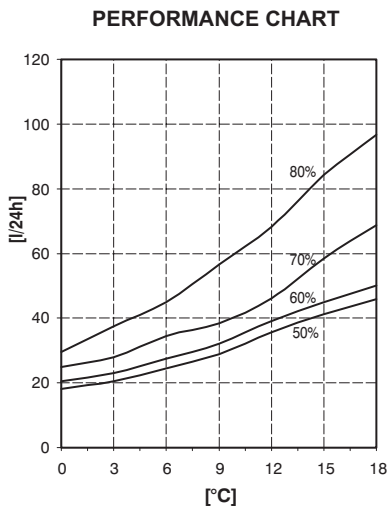
PERFORMANCE CHART



		TEMPERATURE (°C)	0	3	6	9	12	15	18
RELATIVE HUMIDITY	50%	Moisture Removal Rate (l/24h)	105.3	116.9	137.5	160.5	195.6	223.8	249.2
		Absorbed Power (kW)	7.2	7.9	8.6	9.3	10.1	10.9	11.9
		Air Temperature Increase (°C)	1.8	2.0	2.3	2.5	2.8	3.1	3.4
		Ambient Thermal Load (kW)	10.8	11.9	13.1	14.5	16.3	17.9	19.7
	60%	Moisture Removal Rate (l/24h)	118.4	131.5	153.7	178.4	215.1	245.1	271.9
		Absorbed Power (kW)	7.2	7.9	8.6	9.3	10.1	10.9	11.9
		Air Temperature Increase (°C)	1.9	2.1	2.4	2.6	2.9	3.2	3.6
		Ambient Thermal Load (kW)	11.2	12.3	13.6	15.1	16.9	18.6	20.3
	70%	Moisture Removal Rate (l/24h)	143.1	158.8	192.3	211.7	251.8	317.6	371.6
		Absorbed Power (kW)	7.4	8.1	8.8	9.6	10.3	11.2	12.2
		Air Temperature Increase (°C)	2.1	2.3	2.6	2.8	3.2	3.7	4.1
		Ambient Thermal Load (kW)	12.1	13.3	15.0	16.3	18.2	20.9	23.5
	80%	Moisture Removal Rate (l/24h)	170.4	211.7	250.9	312.9	372.6	456.9 ⁽¹⁾	522.6
		Absorbed Power (kW)	7.4	8.1	8.8	9.6	10.3	11.1 ⁽¹⁾	12.2
		Air Temperature Increase (°C)	2.2	2.6	2.9	3.4	3.8	4.4 ⁽¹⁾	4.9
		Ambient Thermal Load (kW)	12.9	14.8	16.7	19.2	21.7	24.8 ⁽¹⁾	27.9

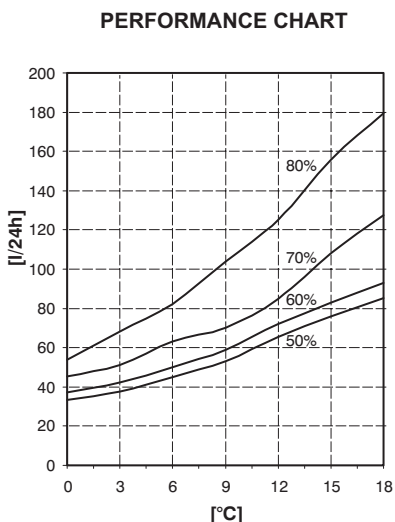
(1) Indicates performance at nominal operating conditions.

PERFORMANCE DATA - CHZ85



DRYING MODE	RELATIVE HUMIDITY	TEMPERATURE (°C)	0	3	6	9	12	15	18
		Moisture Removal Rate (l/24h)	18.2	20.5	24.5	29.0	35.7	41.2	46.0
	50%	Absorbed Power (kW)	1.4	1.5	1.7	1.8	2.0	2.1	2.4
		Air Temperature Increase (°C)	2.9	3.3	3.7	4.1	4.7	5.2	5.8
		Ambient Thermal Load (kW)	2.1	2.3	2.6	2.9	3.2	3.6	3.9
		Moisture Removal Rate (l/24h)	20.5	23.1	27.4	32.2	39.2	45.1	50.2
	60%	Absorbed Power (kW)	1.4	1.5	1.7	1.8	2.0	2.1	2.4
		Air Temperature Increase (°C)	3.0	3.4	3.8	4.3	4.8	5.4	5.9
		Ambient Thermal Load (kW)	2.2	2.4	2.7	3.0	3.4	3.7	4.1
		Moisture Removal Rate (l/24h)	24.9	28.1	34.4	38.4	46.1	58.5	68.7
	70%	Absorbed Power (kW)	1.4	1.6	1.7	1.9	2.0	2.2	2.4
		Air Temperature Increase (°C)	3.3	3.7	4.2	4.6	5.2	6.1	6.9
		Ambient Thermal Load (kW)	2.4	2.6	2.9	3.2	3.6	4.1	4.7
		Moisture Removal Rate (l/24h)	29.6	37.4	44.9	56.7	68.2	84.4 ⁽¹⁾	96.6
COOLING MODE	80%	Absorbed Power (kW)	1.4	1.6	1.7	1.9	2.0	2.2 ⁽¹⁾	2.4
		Air Temperature Increase (°C)	3.5	4.1	4.7	5.5	6.2	7.2 ⁽¹⁾	8.1
		Ambient Thermal Load (kW)	2.5	2.9	3.2	3.7	4.2	4.9 ⁽¹⁾	5.5
	60%	Cooling Capacity (kW)	2.0	2.5	3.1	3.7	4.4	5.2	6.0
		Absorbed Power (kW)	1.5	1.6	1.8	2.0	2.1	2.2	2.4
	80%	Cooling Capacity (kW)	2.2	2.7	3.3	4.0	4.7	5.5 ⁽¹⁾	6.3
		Absorbed Power (kW)	1.5	1.7	1.9	2.0	2.1	2.3 ⁽¹⁾	2.4

PERFORMANCE DATA - CHZ150

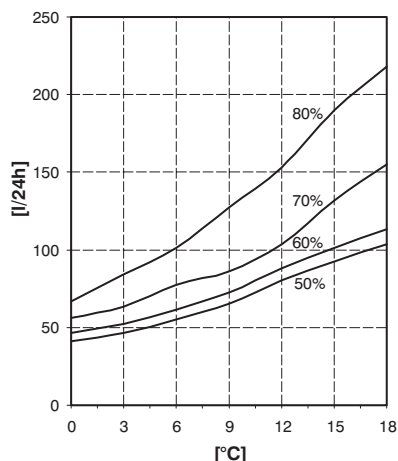


DRYING MODE	RELATIVE HUMIDITY	TEMPERATURE (°C)	0	3	6	9	12	15	18
		Moisture Removal Rate (l/24h)	33.2	37.5	44.8	53.1	65.5	75.9	85.2
	50%	Absorbed Power (kW)	2.5	2.7	3.0	3.2	3.5	3.8	4.2
		Air Temperature Increase (°C)	2.8	3.1	3.5	3.9	4.5	4.9	5.5
		Ambient Thermal Load (kW)	3.9	4.3	4.8	5.3	5.9	6.5	7.1
		Moisture Removal Rate (l/24h)	37.4	42.2	50.1	59.0	72.1	83.1	93.0
	60%	Absorbed Power (kW)	2.5	2.7	3.0	3.2	3.5	3.8	4.2
		Air Temperature Increase (°C)	2.9	3.2	3.6	4.1	4.6	5.1	5.6
		Ambient Thermal Load (kW)	4.1	4.4	4.9	5.4	6.1	6.7	7.4
		Moisture Removal Rate (l/24h)	45.4	51.2	63.0	70.3	84.7	108.1	127.5
	70%	Absorbed Power (kW)	2.6	2.8	3.1	3.3	3.6	3.9	4.3
		Air Temperature Increase (°C)	3.2	3.5	4.0	4.4	5.0	5.8	6.6
		Ambient Thermal Load (kW)	4.4	4.8	5.4	5.9	6.6	7.5	8.5
		Moisture Removal Rate (l/24h)	54.1	68.3	82.2	103.9	125.4	155.8 ⁽¹⁾	179.3
COOLING MODE	80%	Absorbed Power (kW)	2.6	2.8	3.1	3.3	3.6	3.9 ⁽¹⁾	4.3
		Air Temperature Increase (°C)	3.4	3.9	4.5	5.2	6.0	6.9 ⁽¹⁾	7.8
		Ambient Thermal Load (kW)	4.6	5.3	5.9	6.8	7.7	8.9 ⁽¹⁾	10.0
	60%	Cooling Capacity (kW)	3.8	4.7	5.7	6.9	8.2	9.6	11.2
		Absorbed Power (kW)	2.7	3.0	3.2	3.5	3.7	3.9	4.2
	80%	Cooling Capacity (kW)	4.1	5.0	6.1	7.3	8.6	10.1 ⁽¹⁾	11.7
		Absorbed Power (kW)	2.8	3.0	3.3	3.5	3.8	4.0 ⁽¹⁾	4.3

(1) Indicates performance at nominal operating conditions.

PERFORMANCE DATA - CHZ180

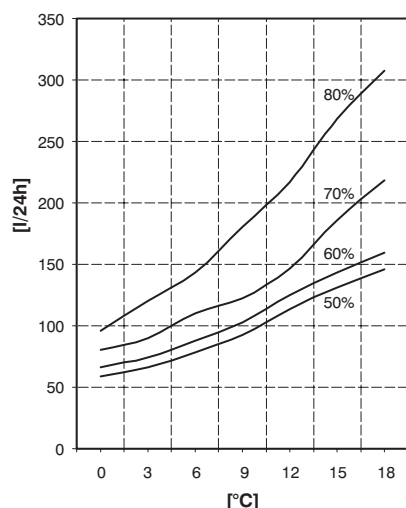
PERFORMANCE CHART



DRYING MODE	RELATIVE HUMIDITY	TEMPERATURE (°C)	0	3	6	9	12	15	18
DRYING MODE	50%	Moisture Removal Rate (l/24h)	41.3	46.4	55.2	65.2	80.2	92.8	103.8
		Absorbed Power (kW)	3.1	3.4	3.7	4.1	4.4	4.8	5.3
		Air Temperature Increase (°C)	3.1	3.4	3.9	4.3	4.9	5.4	6.0
		Ambient Thermal Load (kW)	4.8	5.2	5.8	6.5	7.3	8.0	8.8
	60%	Moisture Removal Rate (l/24h)	46.4	52.2	61.7	72.4	88.2	101.4	113.3
		Absorbed Power (kW)	3.1	3.4	3.7	4.1	4.4	4.8	5.3
		Air Temperature Increase (°C)	3.2	3.6	4.0	4.5	5.1	5.6	6.2
		Ambient Thermal Load (kW)	4.9	5.4	6.0	6.7	7.5	8.3	9.1
	70%	Moisture Removal Rate (l/24h)	56.4	63.3	77.5	86.2	103.6	131.8	155.2
		Absorbed Power (kW)	3.2	3.5	3.9	4.2	4.6	5.0	5.5
		Air Temperature Increase (°C)	3.5	3.9	4.4	4.8	5.5	6.3	7.2
		Ambient Thermal Load (kW)	5.3	5.8	6.6	7.2	8.1	9.3	10.4
	80%	Moisture Removal Rate (l/24h)	67.1	84.4	101.1	127.5	153.3	189.8 ⁽¹⁾	218.3
		Absorbed Power (kW)	3.2	3.5	3.9	4.2	4.6	4.9 ⁽¹⁾	5.5
		Air Temperature Increase (°C)	3.7	4.3	4.9	5.7	6.5	7.5 ⁽¹⁾	8.5
		Ambient Thermal Load (kW)	5.6	6.5	7.3	8.4	9.5	10.9 ⁽¹⁾	12.2
COOLING MODE	60%	Cooling Capacity (kW)	4.8	5.9	7.1	8.5	10.1	11.8	13.6
		Absorbed Power (kW)	3.3	3.7	4.0	4.3	4.7	5.0	5.3
	80%	Cooling Capacity (kW)	5.1	6.3	7.6	9.0	10.6	12.4 ⁽¹⁾	14.3
		Absorbed Power (kW)	3.5	3.8	4.1	4.5	4.8	5.1 ⁽¹⁾	5.4

PERFORMANCE DATA - CHZ250

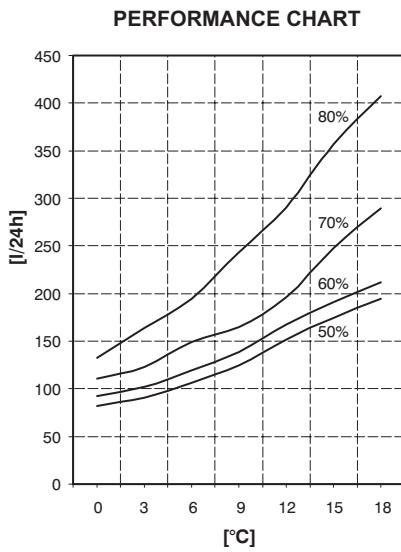
PERFORMANCE CHART



DRYING MODE	RELATIVE HUMIDITY	TEMPERATURE (°C)	0	3	6	9	12	15	18
DRYING MODE	50%	Moisture Removal Rate (l/24h)	59.0	66.1	78.5	92.4	113.4	130.8	146.3
		Absorbed Power (kW)	4.4	4.8	5.2	5.6	6.0	6.5	7.1
		Air Temperature Increase (°C)	1.7	1.9	2.1	2.4	2.7	2.9	3.2
		Ambient Thermal Load (kW)	6.7	7.3	8.0	8.9	9.9	10.9	11.9
	60%	Moisture Removal Rate (l/24h)	66.4	74.4	87.7	102.6	124.8	143.2	159.6
		Absorbed Power (kW)	4.4	4.8	5.2	5.6	6.0	6.5	7.1
		Air Temperature Increase (°C)	1.8	2.0	2.2	2.4	2.7	3.0	3.3
		Ambient Thermal Load (kW)	6.9	7.5	8.3	9.2	10.2	11.2	12.3
	70%	Moisture Removal Rate (l/24h)	80.5	90.1	110.0	122.1	146.4	186.0	218.5
		Absorbed Power (kW)	4.5	4.9	5.3	5.7	6.2	6.7	7.2
		Air Temperature Increase (°C)	1.9	2.1	2.4	2.6	3.0	3.4	3.9
		Ambient Thermal Load (kW)	7.4	8.1	9.1	9.9	11.0	12.6	14.1
	80%	Moisture Removal Rate (l/24h)	95.8	120.1	143.5	180.5	216.7	268.3 ⁽¹⁾	307.3
		Absorbed Power (kW)	4.5	4.9	5.3	5.7	6.2	6.6 ⁽¹⁾	7.2
		Air Temperature Increase (°C)	2.1	2.4	2.7	3.1	3.5	4.1 ⁽¹⁾	4.6
		Ambient Thermal Load (kW)	7.9	9.0	10.1	11.5	13.0	14.9 ⁽¹⁾	16.7
COOLING MODE	60%	Cooling Capacity (kW)	6.8	8.3	10.1	12.0	14.1	16.5	19.2
		Absorbed Power (kW)	5.0	5.4	5.7	6.1	6.4	6.8	7.1
	80%	Cooling Capacity (kW)	7.3	8.9	10.7	12.7	14.9	17.4 ⁽¹⁾	20.1
		Absorbed Power (kW)	5.1	5.5	5.8	6.2	6.5	6.9 ⁽¹⁾	7.2

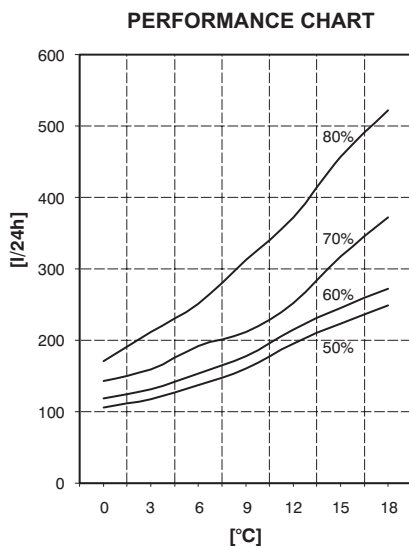
(1) Indicates performance at nominal operating conditions.

PERFORMANCE DATA - CHZ320



DRYING MODE			TEMPERATURE (°C)	0	3	6	9	12	15	18
	RELATIVE HUMIDITY	50%	Moisture Removal Rate (l/24h)	81.8	90.7	106.8	124.7	152.2	174.4	194.3
			Absorbed Power (kW)	5.5	6.0	6.6	7.1	7.7	8.3	9.1
			Air Temperature Increase (°C)	1.7	1.9	2.1	2.3	2.6	2.9	3.2
			Ambient Thermal Load (kW)	8.5	9.3	10.2	11.3	12.7	13.9	15.3
		60%	Moisture Removal Rate (l/24h)	92.0	102.1	119.3	138.6	167.4	191.0	211.9
			Absorbed Power (kW)	5.5	6.0	6.6	7.1	7.7	8.3	9.1
			Air Temperature Increase (°C)	1.8	1.9	2.2	2.4	2.7	3.0	3.3
			Ambient Thermal Load (kW)	8.8	9.6	10.8	11.7	13.1	14.4	15.8
		70%	Moisture Removal Rate (l/24h)	111.2	123.3	149.3	164.5	196.0	247.8	289.8
			Absorbed Power (kW)	5.7	6.2	6.7	7.3	7.9	8.5	9.3
			Air Temperature Increase (°C)	1.9	2.1	2.4	2.6	2.9	3.4	3.8
			Ambient Thermal Load (kW)	9.5	10.4	11.6	12.6	14.1	16.3	18.3
	80%	Moisture Removal Rate (l/24h)	132.3	164.3	194.8	243.2	290.0	356.8 ⁽¹⁾	407.6	
		Absorbed Power (kW)	5.7	6.2	6.7	7.3	7.9	8.4 ⁽¹⁾	9.3	
		Air Temperature Increase (°C)	2.1	2.4	2.7	3.1	3.5	4.1 ⁽¹⁾	4.6	
Ambient Thermal Load (kW)		10.1	11.5	13.0	14.9	16.9	19.3 ⁽¹⁾	21.7		
COOLING MODE	RELATIVE HUMIDITY	60%	Cooling Capacity (kW)	9.7	11.6	13.9	16.3	19.1	22.1	25.5
			Absorbed Power (kW)	6.3	6.8	7.3	7.8	8.2	8.7	9.1
		80%	Cooling Capacity (kW)	10.3	12.4	14.7	17.2	20.1	23.2 ⁽¹⁾	26.6
			Absorbed Power (kW)	6.5	7.0	7.4	7.9	8.4	8.8 ⁽¹⁾	9.2

PERFORMANCE DATA - CHZ400



DRYING MODE			TEMPERATURE (°C)	0	3	6	9	12	15	18
	RELATIVE HUMIDITY	50%	Moisture Removal Rate (l/24h)	105.3	116.9	137.5	160.5	195.6	223.8	249.2
			Absorbed Power (kW)	7.2	7.9	8.6	9.3	10.1	10.9	11.9
			Air Temperature Increase (°C)	1.8	2.0	2.3	2.5	2.8	3.1	3.4
			Ambient Thermal Load (kW)	10.8	11.9	13.1	14.5	16.3	17.9	19.7
		60%	Moisture Removal Rate (l/24h)	118.4	131.5	153.7	178.4	215.1	245.1	271.9
			Absorbed Power (kW)	7.2	7.9	8.6	9.3	10.1	10.9	11.9
			Air Temperature Increase (°C)	1.9	2.1	2.4	2.6	2.9	3.2	3.6
			Ambient Thermal Load (kW)	11.2	12.3	13.6	15.1	16.9	18.6	20.3
		70%	Moisture Removal Rate (l/24h)	143.1	158.8	192.3	211.7	251.8	317.8	371.6
			Absorbed Power (kW)	7.4	8.1	8.8	9.6	10.3	11.2	12.2
			Air Temperature Increase (°C)	2.1	2.3	2.6	2.8	3.2	3.7	4.1
			Ambient Thermal Load (kW)	12.1	13.3	15.0	16.3	18.2	20.9	23.5
		80%	Moisture Removal Rate (l/24h)	170.4	211.7	250.9	312.9	372.6	456.9 ⁽¹⁾	522.6
			Absorbed Power (kW)	7.4	8.1	8.8	9.6	10.3	11.1 ⁽¹⁾	12.2
			Air Temperature Increase (°C)	2.2	2.6	2.9	3.4	3.8	4.4 ⁽¹⁾	4.9
Ambient Thermal Load (kW)			12.9	14.8	16.7	19.2	21.7	24.8 ⁽¹⁾	27.9	

COOLING MODE	RELATIVE HUMIDITY	60%	Cooling Capacity (kW)	13.1	15.6	18.4	21.4	24.8	28.6	32.7
			Absorbed Power (kW)	8.3	8.9	9.5	10.1	10.7	11.3	11.9
		80%	Cooling Capacity (kW)	13.9	16.5	19.3	22.5	26.0	29.9 ⁽¹⁾	34.1
			Absorbed Power (kW)	8.5	9.1	9.7	10.3	10.9	11.5 ⁽¹⁾	12.1

(1) Indicates performance at nominal operating conditions.