

## “Roof-Top” air conditioners and air/air heat pumps with scroll compressors



### GAMMA

#### Frame and panels

Unit frame made from extruded aluminium alloy sections assembled with fibreglass-reinforced nylon joints. 25 mm sandwich-type panels; outer surface in pre-painted galvanised sheet steel; inner surface in galvanized sheet steel with polyurethane foam in cavity to ensure heat conductivity of 0.021 W/(m°K).

#### Compressor

Hermetic scroll compressor fitted with internal temperature sensor for motor thermal overload protection.

#### Condenser

Coil with copper tubes and aluminium fins. Protected by standard metal guard.

#### Fans on condenser side

Axial fans directly coupled to electric motor with internal klixon thermal overload protection and safety guard.

#### Evaporator

Coil with copper tubes and aluminium fins.

#### Fan on evaporator side

Centrifugal double-suction fan with belt/pulley drive directly coupled to three-phase motor.

#### Air filter

Synthetic, self-extinguishing permanent filter with EU3 filtering efficiency.

#### Refrigerant circuit

It includes: liquid line shut-off valve, charging connection, sight glass, drier-filter, thermostatic expansion valve, high-pressure safety device (melting plug).

#### Electrical panel

It includes:

- main switch
- thermal magnetic circuit breakers
- contactors

- fan overload cut-out
- microprocessor electronic controller
- remote-shared panel connection

#### Control panel with display for remote installation

Displays:

- input status, allows modification (during operation) of basic operating parameters
- detected alarms (also indicated by acoustic alarm).

#### Safety devices

- manual-reset low and high pressure switch
- high-pressure mechanical safety device
- fan overload protection
- compressor overload protection.

#### Testing

Factory tested to specified conditions. Units are supplied with refrigerant charge and oil.

### GAMMA/HP

Reversible heat pump. In addition to the components featured on the cooling only version:

#### REFRIGERANT CIRCUIT

Four-way diverting valve, liquid accumulator, second thermostatic expansion valve.

#### ELECTRICAL PANEL

Microprocessor enabled for summer/winter switchover and automatic defrosting.

### OTHER VERSIONS

#### GAMMA/LN

Low-noise unit with soundproofed compressor compartment with sound-absorbing material and lead sheet.

### ACCESSORIES

- Fan speed control for operation with low ambient air temperature;
- Rubber antivibration mounts;
- Water and/or electric heating coil;
- Coils specially treated for installation in aggressive environments;
- Copper/tinned copper coil;
- Increased available fan pressure in evaporating section;
- Refrigerant pressure gauges;
- Aluminium or 304 AISI stainless steel panels;
- Special voltages and frequencies.

## GAMMA - R407C TECHNICAL DATA

Unit size		41	61	81	91
<b>Nominal cooling capacity (*)</b>	kW	12.4	15.3	18.2	22.0
<b>Sensible nominal cooling capacity (*)</b>	kW	8.8	10.8	13.1	15.9
<b>Nominal heating capacity (**)</b>	kW	11.5	13.9	17.2	20.6
<b>Compressors</b>					
Quantity/Refrigerant circuits	n°	1/1	1/1	1/1	1/1
Capacity steps	%	0-100	0-100	0-100	0-100
Cooling power input (*)	kW	3.3	4.1	4.9	5.9
Heating power input (**)	kW	2.9	3.9	4.5	4.9
<b>Evaporator</b>					
Air flow	m³/s	0.66	0.80	0.94	1.25
Available static pressure	Pa	100	100	100	120

Unit size		101	141	161
<b>Nominal cooling capacity (*)</b>	kW	31.9	39.5	47.3
<b>Sensible nominal cooling capacity (*)</b>	kW	22.9	28.6	34.8
<b>Nominal heating capacity (**)</b>	kW	29.9	37.3	43.2
<b>Compressors</b>				
Quantity/Refrigerant circuits	n°	1/1	1/1	1/1
Capacity steps	%	0-100	0-100	0-100
Cooling power input (*)	kW	8.5	10.5	12.6
Heating power input (**)	kW	7.4	10.2	10.3
<b>Evaporator</b>				
Air flow	m³/s	1.75	2.2	2.6
Available static pressure	Pa	120	120	120

(\*) Ambient air temperature 35°C; evaporator intake air temperature 26°C DB, 19°C WB.

(\*\*) Ambient air temperature 8.3°C DB, 6.1°C WB; condenser intake air temperature 20°C DB.

## GAMMA - PRICE LIST

Basic unit	41	61	81	91	101	141	161
<b>GAMMA</b>	7.628,00	8.164,00	9.240,00	10.440,00	12.390,00	15.027,00	17.187,00
<b>GAMMA/HP</b>	8.707,00	9.473,00	10.692,00	11.994,00	14.286,00	17.491,00	20.057,00

- Please contact the sales department for accessory prices.

**“Roof-Top” air conditioners  
and air/air heat pumps  
with scroll compressors**



## LAMBDA

### Frame and panels

Unit frame made from extruded aluminium alloy sections assembled with fibreglass-reinforced nylon joints. 25 mm sandwich panels; outer surface in pre-painted galvanised sheet steel; inner surface in galvanised sheet steel with polyurethane foam in cavity to ensure heat conductivity of 0.021 W/(m<sup>2</sup>K).

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Coil with copper tubes and aluminium fins. Finned bundle is protected by standard metal guard.

### Fans on condenser side

Axial fans directly coupled to electric motor with internal klixon thermal overload protection and safety guard.

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Centrifugal double-suction fan with belt/pulley drive directly coupled to three-phase motor.

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Synthetic, self-extinguishing permanent filter with EU3 filtering efficiency.

### Refrigerant circuit

It includes: liquid line shut-off valve, charging connection, sight glass, drier filter, thermostatic expansion valve, high-pressure safety device (melting plug).

### Electrical panel

It includes:

- main switch
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- fan overload cut-out
  - microprocessor electronic controller
  - remote-shared panel connection
- Control panel with display for remote installation**

Displays:

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### Safety devices

- manual-reset low and high pressure switch
- high-pressure mechanical safety device
- fan overload protection
- compressor overload protection.

### Testing

Factory tested to specified conditions. Units are supplied with refrigerant charge and oil.

## ACCESSORIES

- Fan speed control for operation with low ambient air temperature;
- Rubber antivibration mounts;
- Water and/or electric heating coil;
- Coils specially treated for installation in aggressive environments;
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- Increased available fan pressure in evaporating section;
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- Aluminium or 304 AISI stainless steel panels;
- Special voltages and frequencies.

## LAMBDA/HP

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### REFRIGERANT CIRCUIT

Four-way diverting valve, liquid accumulator, second thermostatic expansion valve.

### ELECTRICAL PANEL

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## OTHER VERSIONS

### LAMBDA/LN

Low-noise unit with soundproofed compressor compartment with sound-absorbing material and lead sheet.

## LAMBDA - R407C TECHNICAL DATA

Unit size		3.2	4.2	5.2	6.2
<b>Nominal cooling capacity (*)</b>	kW	42.3	50.2	57.8	67.3
<b>Sensible nominal cooling capacity (*)</b>	kW	30.2	34.3	41.7	45.6
<b>Nominal heating capacity (**)</b>	kW	40.4	58.2	54.5	62.7
<b>Compressors</b>					
Quantity/Refrigerant circuits	n°	2/2	2/2	2/2	2/2
Capacity steps	%	50-100	50-100	50-100	0-57-100
Cooling power input (*)	kW	11.4	13.7	16	19.7
Heating power input (**)	kW	10.6	12.6	14.6	16.5
<b>Evaporator</b>					
Air flow	m³/s	2.77	2.95	3.33	3.88
Available static pressure	Pa	120	120	120	120
<b>Hot water coil performance</b>					
Nominal heating capacity (***)	kW	91.78	95.13	115.23	136.93
Water flow rate	l/s	2.25	2.33	2.82	3.35
Pressure drops	kPa	19	20	16	11
<b>Dimensions and weight of basic unit</b>					
Width	mm	4,350	4,350	4,350	4,900
Depth	mm	1,770	1,770	1,770	1,900
Height	mm	1,820	1,820	1,820	1,920
Shipping weight (#)	kg	1,425	1,440	1,480	1,600
Unit size		7.2	8.2	9.2	10.2
<b>Nominal cooling capacity (*)</b>	kW	76.6	88.8	100.2	122.6
<b>Sensible nominal cooling capacity (*)</b>	kW	50.6	65.2	69.8	84.6
<b>Nominal heating capacity (**)</b>	kW	71	83.6	96.4	114.2
<b>Compressors</b>					
Quantity/Refrigerant circuits	n°	2/2	2/2	4/2	2/2
Capacity steps	%	50-100	50-100	50-100	50-100
Cooling power input (*)	kW	21.8	24.6	28.7	33.1
Heating power input (**)	kW	18.4	22.2	25.2	28.6
<b>Evaporator</b>					
Air flow	m³/s	4.00	4.44	4.86	5.83
Available static pressure	Pa	120	160	160	160
<b>Hot water coil performance</b>					
Nominal heating capacity (***)	kW	142.56	152.71	168.42	189.45
Water flow rate	l/s	3.49	3.74	4.13	4.64
Pressure drops	kPa	11	12	14	17
<b>Dimensions and weight of basic unit</b>					
Width	mm	4,900	4,900	5,950	5,950
Depth	mm	1,900	1,900	2,000	2,000
Height	mm	1,920	1,920	1,920	1,920
Shipping weight (#)	kg	1,642	1,695	2,080	2,120
Unit size		13.2	16.2	19.2	20.2
<b>Nominal cooling capacity (*)</b>	kW	149.4	174.6	206.8	243
<b>Sensible nominal cooling capacity (*)</b>	kW	100.8	118.7	137.2	168.5
<b>Nominal heating capacity (**)</b>	kW	137.2	164.4	193.2	226.2
<b>Compressors</b>					
Quantity/Refrigerant circuits	n°	2/2	4/2	4/2	4/2
Capacity steps	%	50-100	50-100	50-100	50-100
Cooling power input (*)	kW	38.2	49.2	57.7	66.2
Heating power input (**)	kW	36.2	44.4	50.8	57.2
<b>Evaporator</b>					
Air flow	m³/s	6.38	7.50	9.00	10.8
Available static pressure	Pa	160	160	180	180
<b>Hot water coil performance</b>					
Nominal heating capacity (***)	kW	200.78	259.50	310.32	342.67
Water flow rate	l/s	4.92	6.37	7.63	8.39
Pressure drops kPa	19	16	20	23	
<b>Dimensions and weight of basic unit</b>					
Width	mm	5,950	6,470	6,470	6,470
Depth	mm	2,000	2,300	2,300	2,300
Height	mm	1,920	2,520	2,520	2,520
Shipping weight (#)	kg	2,180	2,490	2,650	2,985

For heat pump units increase weight by 10%.

(\*) Ambient air temperature 35°C; evaporator intake air temperature 26°C DB, 19°C WB.

(\*\*) Ambient air temperature 8.3°C DB, 6.1°C WB; condenser intake air temperature 20°C DB.

(\*\*\*) Water temperature 80°-70°C; coil intake air temperature 20°C.

# LAMBDA

Basic unit	3.2	4.2	5.2	6.2
LAMBDA	19.950,00	21.150,00	22.250,00	22.500,00
LAMBDA /HP	23.800,00	25.300,00	26.600,00	26.900,00
Accessory	3.2	4.2	5.2	6.2
LN (Low-noise version)	250,00	250,00	250,00	250,00
SLN (Super low-noise version)	2.150,00	2.150,00	2.150,00	2.450,00
Refrigerant circuit accessories	3.2	4.2	5.2	6.2
On/off fans high pressure control (0 °C)	550,00	550,00	550,00	550,00
Cond. control with fan speed control (-20 °C) with Microchiller controller	1.000,00	1.000,00	1.000,00	1.000,00
Cond. control with fan speed control (-20 °C) with pCO controller	1.850,00	1.850,00	1.850,00	1.850,00
Pressure gauges	370,00	370,00	370,00	370,00
Liquid receivers (standard on HP version)	850,00	850,00	850,00	850,00
Shut-off valves on compressor suction and discharge side	850,00	850,00	850,00	950,00
Liquid line solenoid valve LAMBDA	450,00	450,00	450,00	450,00
Liquid line solenoid valve LAMBDA /HP	640,00	640,00	640,00	640,00
Air circuit accessories	3.2	4.2	5.2	6.2
Water heating coil without three-way valve	900,00	900,00	900,00	1.100,00
Water heating coil with modulating three-way valve (1)	2.400,00	2.400,00	2.400,00	2.650,00
Electric heating coil (1)	1.200,00	1.200,00	1.200,00	1.500,00
Rigid bag air filters EU 7	1.700,00	1.700,00	1.700,00	2.050,00
Mixing module FC 2S	1.100,00	1.100,00	1.100,00	1.100,00
Mixing module FC 3S	5.650,00	5.650,00	5.650,00	5.650,00
Mixing module FC 3S with static recovery (1)	9.250,00	9.250,00	9.250,00	10.700,00
Increased available fan pressure (from 120 Pa to 500 Pa)	400,00	400,00	400,00	400,00
Humidification with disposable wick (1)	2.100,00	2.100,00	2.100,00	2.400,00
Electrical accessories	3.2	4.2	5.2	6.2
Clogged filter alarm	350,00	350,00	350,00	350,00
pCO controller	520,00	520,00	520,00	520,00
RS485 serial interface	250,00	250,00	250,00	250,00
Remote-shared panel	400,00	400,00	400,00	400,00
Power factor correction $\cos\phi \geq 0,9$	1.200,00	1.200,00	1.200,00	1.200,00
Damper actuators for module FC 2S (1)	1.600,00	1.600,00	1.600,00	1.600,00

# LAMBDA

7.2	8.2	9.2	10.2	13.2	16.2	19.2	20.2
23.900,00	25.950,00	32.250,00	34.700,00	36.750,00	53.700,00	57.350,00	70.500,00
28.550,00	31.000,00	38.500,00	41.250,00	43.700,00	63.850,00	68.400,00	84.500,00

7.2	8.2	9.2	10.2	13.2	16.2	19.2	20.2
250,00	250,00	400,00	400,00	400,00	400,00	400,00	400,00
2.450,00	2.450,00	3.100,00	3.100,00	3.100,00	3.250,00	3.250,00	3.250,00

7.2	8.2	9.2	10.2	13.2	16.2	19.2	20.2
550,00	550,00	550,00	550,00	550,00	550,00	550,00	550,00
1.000,00	1.000,00	1.100,00	1.100,00	1.100,00	1.100,00	1.100,00	1.100,00
1.850,00	1.850,00	1.850,00	1.850,00	1.850,00	1.850,00	1.850,00	1.850,00
370,00	370,00	370,00	370,00	370,00	370,00	370,00	370,00
850,00	850,00	1.300,00	1.300,00	1.300,00	1.300,00	1.300,00	1.300,00
950,00	950,00	1.700,00	1.000,00	1.000,00	1.850,00	3.050,00	3.400,00
450,00	450,00	450,00	450,00	450,00	450,00	450,00	450,00
640,00	640,00	640,00	640,00	640,00	640,00	640,00	640,00

7.2	8.2	9.2	10.2	13.2	16.2	19.2	20.2
1.100,00	1.100,00	1.400,00	1.400,00	1.400,00	1.700,00	1.700,00	1.700,00
2.650,00	2.650,00	3.250,00	3.250,00	3.250,00	3.550,00	3.550,00	3.550,00
1.500,00	1.500,00	2.050,00	2.050,00	2.050,00	2.700,00	2.700,00	2.700,00
25 kW - 2 stage		→←	30 kW - 2 stage	→←	40 kW - 2 stage		→
2.050,00	2.050,00	2.550,00	2.550,00	2.550,00	3.800,00	3.800,00	3.800,00
1.100,00	1.100,00	1.350,00	1.350,00	1.350,00	1.550,00	1.550,00	1.550,00
5.650,00	5.650,00	6.500,00	6.500,00	6.500,00	7.100,00	7.100,00	7.100,00
10.700,00	10.700,00	11.450,00	11.450,00	11.450,00	14.100,00	14.100,00	14.100,00
400,00	400,00	400,00	400,00	600,00	600,00	600,00	600,00
2.400,00	2.400,00	2.700,00	2.700,00	2.700,00	3.200,00	3.200,00	3.200,00

7.2	8.2	9.2	10.2	13.2	16.2	19.2	20.2
350,00	350,00	350,00	350,00	350,00	350,00	350,00	350,00
520,00	520,00	520,00	520,00	520,00	520,00	520,00	520,00
250,00	250,00	250,00	250,00	250,00	250,00	250,00	250,00
400,00	400,00	400,00	400,00	400,00	400,00	400,00	400,00
1.350,00	1.350,00	1.350,00	1.350,00	1.350,00	1.500,00	1.500,00	1.500,00
1.600,00	1.600,00	1.600,00	1.600,00	1.600,00	1.600,00	1.600,00	1.600,00

## LAMBDA

Electrical accessories	3.2	4.2	5.2	6.2
Damper actuators for module FC 3S (1)	2.400,00	2.400,00	2.400,00	2.400,00
Damper actuators for module FC 2S with spring return (1)	1.970,00	1.970,00	1.970,00	1.970,00
Damper actuators for module FC 3S with spring return (1)	2.950,00	2.950,00	2.950,00	2.950,00
Single voltage free operating contact	150,00	150,00	150,00	150,00
Miscellaneous accessories	3.2	4.2	5.2	6.2
Rubber antivibration mounts	500,00	500,00	500,00	500,00
Specially treated condensing coil	Please contact the sales department for prices			
Natural gas heater	Please contact the sales department for prices			
Packing in wooden crate	Please contact the sales department for prices			
Special pallet for shipment in container	Please contact the sales department for prices			
Condensing coil protection guard	STANDARD			

### The basic unit comprises:

- Certification to directive 97/23 EEC (PED);
- Main switch
- Compressor fuses
- Condensing coil protection guard.
- Hour meter
- Automatic compressor rotation

(1) The "pCO controller" accessory must be added for operation

# LAMBDA

7.2	8.2	9.2	10.2	13.2	16.2	19.2	20.2
2.400,00	2.400,00	2.400,00	2.400,00	2.400,00	2.400,00	2.400,00	2.400,00
1.970,00	1.970,00	1.970,00	1.970,00	1.970,00	1.970,00	1.970,00	1.970,00
2.950,00	2.950,00	2.950,00	2.950,00	2.950,00	2.950,00	2.950,00	2.950,00
150,00	150,00	150,00	150,00	150,00	150,00	150,00	150,00
7.2	8.2	9.2	10.2	13.2	16.2	19.2	20.2
500,00	500,00	700,00	700,00	700,00	700,00	700,00	700,00
Please contact the sales department for prices							
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Please contact the sales department for prices							
Please contact the sales department for prices							
STANDARD							

## Air handlers



## SV

**Unit frame**

Constructed with double skin panels in material to be chosen from the following options:

- galvanized steel
- pre-painted galvanized steel
- pre-painted aluminium
- 304 AISI stainless steel

The panelling, with injected polyurethane foam core (or rock wool on request), is available in two different thicknesses (density 42/44 kg/m<sup>3</sup> - thermal conductivity K=0.021 W/(m<sup>2</sup>K)):

- 25 mm;
- 45.5 mm.

Inspection doors made from same materials as panelling.

Unit frame is made from high-strength extruded aluminium alloy sections assembled with fibreglass-reinforced nylon corner joints. On request, the frame can be made with thermal break insulated profiles.

Internal components are made from galvanized pressed steel (dropl separators, filter and coil guides) and extruded aluminium (motor and fan baseplates). On request, components can be made from aluminium or stainless steel.

**Dampers**

Aluminium dampers with modulating louvers. On request, shutters can be supplied with seals along sides and on louvers profiles.

Actuators can be factory-fitted on request.

**Filters**

The filter section is designed to accommodate primary manufacturers' filters, to be selected according to the application.

The following filter types are available:

- cell filters (grade G3-4)
- bag filters (grade F6-9)
- absolute filters (grade H13-14)
- rotary filters (grade G3), with automatic movement
- activated carbon filters to absorb various gas types.

**Coils**

Made from copper tubes and aluminium fins (except for steam coils made from welded steel tubes), installed on guides to facilitate removal for maintenance and cleaning.

Heating coils:

- hot water coils
- steam coils
- multiple stage electric coils with armoured heating elements
- Cooling coils:
- chilled water coils
- refrigerant coils (R22, R407C, R134a)

**Humidification**

The following solutions are available according to the specific application:

- adiabatic evaporation with pits comb bundle and feed pump or disposable type
- with one or more nozzle ramps and feed pump
- vapour, with single distribution nozzle or with flooded electrode vapour generator
- atomised water
- ultrasound

Each application is equipped as standard with dropl separators (available on request in: polypropylene, galvanized steel, stainless steel, aluminium) and 304 AISI stainless steel water drip trays with overflow safety device and drain.

**Fan sections**

Forward or backward curved blade fans with single or two-speed motor.

Motor and fan are coupled by belts and fixed-pitch or adjustable pulleys.

To reduce the transmission of vibration to the support structures, motor baseplates are installed on rubber antivibration mounts and fan delivery outlets are connected to the structure by means of antivibration joints.

**SPECIAL VERSIONS**

- dual fan air handlers with triad of 3-damper section
- integrated dehumidification systems for industrial processes
- food industry process tunnels
- designs to customer specifications
- construction to ADPE standards.

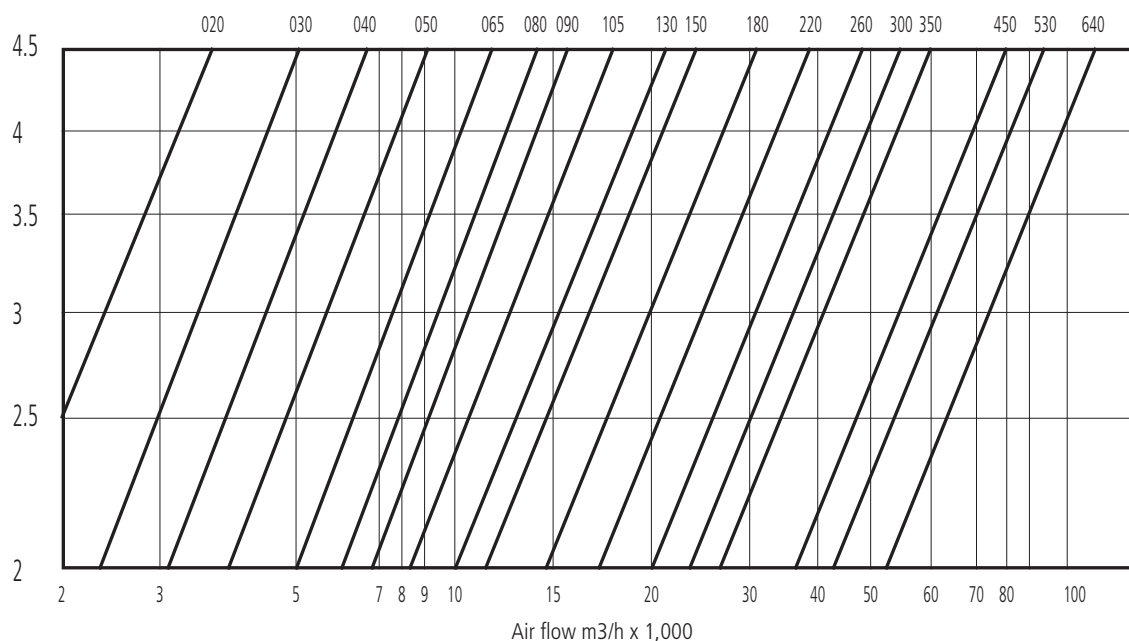
## SV - TECHNICAL DATA

Unit size		020	030	040	050	065	080
<b>Nominal air flow</b>	m <sup>3</sup> /h	2,000	3,000	4,000	5,000	6,500	8,000
<b>Coil sections</b>							
<b>Geometry 30 x 26 tube 12 mm</b>	B x H	600 x 360	600 x 540	800 x 540	900 x 600	1000 x 720	1200 x 720
	Sect. m <sup>2</sup>	0.22	0.33	0.43	0.54	0.72	0.87
	Velocity m/s	2.52	2.52	2.58	2.57	2.50	2.55
<b>Geometry 60 x 30 tube 16 mm</b>	B x H	600 x 360	600 x 540	800 x 540	900 x 600	1000 x 720	1200 x 720
	Sect. m <sup>2</sup>	0.22	0.33	0.43	0.54	0.72	0.87
	Velocity m/s	2.52	2.52	2.58	2.57	2.50	2.55
<b>External dimensions</b>							
<b>Panel "25"</b>	B x H	900 x 600	900 x 780	1100 x 780	1250 x 840	1350 x 960	1550 x 960
<b>Panel "50"</b>	B x H	950 x 650	950 x 830	1150 x 830	1300 x 890	1400 x 1010	1600 x 1010

Unit size		090	105	130	150	180	220
<b>Nominal air flow</b>	m <sup>3</sup> /h	9,000	10,500	13,000	15,000	18,000	22,000
<b>Coil sections</b>							
<b>Geometry 30 x 26 tube 12 mm</b>	B x H	1200 x 840	1400 x 840	1400 x 1020	1600 x 1020	1750 x 1140	1900 x 1260
	Sect. m <sup>2</sup>	1.00	1.18	1.43	1.63	2.00	2.40
	Velocity m/s	2.50	2.47	2.52	2.55	2.50	2.54
<b>Geometry 60 x 30 tube 16 mm</b>	B x H	1200 x 840	1400 x 840	1400 x 1020	1600 x 1020	1750 x 1140	1900 x 1260
	Sect. m <sup>2</sup>	1.00	1.18	1.43	1.63	2.00	2.40
	Velocity m/s	2.50	2.47	2.52	2.55	2.50	2.54
<b>External dimensions</b>							
<b>Panel "25"</b>	B x H	1550 x 1080	1750 x 1080	1850 x 1260	1950 x 1260	2100 x 1380	2250 x 1500
<b>Panel "50"</b>	B x H	1600 x 1130	1800 x 1130	1900 x 1310	2000 x 1310	2150 x 1430	2300 x 1550

Unit size		260	300	350	450	530	640
<b>Nominal Air flow</b>	m <sup>3</sup> /h	26,000	30,000	35,000	45,000	53,000	64,000
<b>Coil sections</b>							
<b>Geometry 30 x 26 tube 12 mm</b>	B x H	1900 x 1500	1900 x 1740	1900 x 1950	2600 x 1950	3000 x 1950	3500 x 1950
	Sect. m <sup>2</sup>	2.85	3.31	3.71	5.07	8.85	6.82
	Velocity m/s	2.53	2.51	2.62	2.47	2.51	2.60
<b>Geometry 60 x 30 tube 16 mm</b>	B x H	1900 x 1500	1900 x 1740	1900 x 1980	2600 x 1980	3000 x 1980	3500 x 1980
	Sect. m <sup>2</sup>	2.85	3.31	3.76	5.14	5.94	6.93
	Velocity m/s	2.53	2.51	2.58	2.43	2.48	2.56
<b>External dimensions</b>							
<b>Panel "25"</b>	B x H	2250 x 1740	2250 x 1980	2250 x 2250	2950 x 2250	3350 x 2250	3850 x 250
<b>Panel "50"</b>	B x H	2350 x 1790	2350 x 2030	2350 x 2300	3000 x 2300	3400 x 2300	3900 x 2300

### SELECTION DIAGRAM FOR SV SERIES UNITS



# CHD-CLD-CQD

## Remote air-cooled condensers with axial fans



### GENERAL DESCRIPTION

#### Performance

Specified performance and sound levels have been verified at the TÜV laboratories in compliance with ENV 327 and DIN 45635 standards respectively.

#### Unit frame

Made from 2.0 or 2.5 mm thick Al Mg alloy (depending on parts and model), with protective scratchproof film. Reinforcement on coil bend side. Stainless steel support brackets.

#### Coil

Finned coil with copper tubes (diameter 12 mm), geometry 32 (30 x 26) equilaterally staggered, with high-efficiency aluminium fins. Fins have 2.1 mm pitch on all models. Circuits are developed in counter-current. Copper manifolds are fitted with 1/4" pressure gauge connection. Internal tube cleaning on all coils. All coils are degreased and leak-tested in water with dry air at a pressure of 30 bar.

#### Fans

Axial fans directly coupled to electric motor (IP 54 protection category), power supply 400/3/50 Hz. Fans can also be coupled to speed control device. Motors are protected by an integral thermal contact. Fans fitted with safety guard.

### ACCESSORIES

- condensation control with fan speed control for operation with low ambient air temperature;
- copper/aluminium coils pre-painted (for marine environment);
- copper/copper or copper/tinned copper coils (for very aggressive environments);
- special voltages and frequencies.

## CHD-CLD-CQD - R407C TECHNICAL DATA

STANDARD version		1263B	1263C	1363B	1363C	1380A	1380B	1463A	1463B	1480A
<b>Air flow</b>	m <sup>3</sup> /h	19,400	18,700	29,100	28,050	53,400	51,000	38,800	37,400	71,200
<b>Noise level (*)</b>	db(A)	54	54	56	56	61	61	57	57	62
<b>Dimensions and weight</b>										
Width	mm	2540	2540	3700	3700	4830	4830	4870	4870	6330
Depth - Horizontal air flow	mm	600	600	600	600	800	800	600	600	800
Height - Horizontal air flow	mm	1180	1180	1180	1180	1540	1540	1180	1180	1540
Depth - Vertical air flow	mm	1260	1260	1260	1260	1640	1640	1260	1260	1640
Height - Vertical air flow	mm	990	990	990	990	1500	1500	990	990	1500
Shipping weight	kg	180	205	275	330	390	470	320	380	500

STANDARD version		1480B	2480B	2480C	2480D	2580B	2580C	2580D	2680A	2680B
<b>Air flow</b>	m <sup>3</sup> /h	68,000	128,000	123,200	112,000	160,000	154,000	140,000	184,800	168,000
<b>Noise level (*)</b>	db(A)	62	65	65	65	66	66	66	67	67
<b>Dimensions and weight</b>										
Length	mm	6330	5930	5930	5930	7330	7330	7330	8730	8730
Depth - Horizontal air discharge	mm	800	800	800	800	800	800	800	800	800
Height - Horizontal air flow	mm	1540	2320	2320	2320	2320	2320	2320	2320	2320
Depth - Vertical air flow	mm	1640	2420	2420	2420	2420	2420	2420	2420	2420
Height - Vertical air flow	mm	1500	1500	1500	1500	1500	1500	1500	1500	1500
Shipping weight	kg	600	860	1040	1400	1080	1300	1750	1560	2100

LOW-NOISE version		1263C	1280A	1363A	1363B	1363C	1380A	1463A	1463B	1480A
<b>Air flow</b>	m <sup>3</sup> /h	13,200	26,000	21,600	20,400	19,800	39,000	27,200	26,400	52,000
<b>Noise level (*)</b>	db(A)	46	52	48	48	48	55	49	49	56
<b>Dimensions and weight</b>										
Length	mm	2540	3330	3700	3700	3700	4830	4870	4870	6330
Depth - Horizontal air flow	mm	600	800	600	600	600	800	600	600	800
Height - Horizontal air flow	mm	1180	1540	1180	1180	1180	1540	1180	1180	1540
Depth - Vertical air flow	mm	1260	1640	1260	1260	1260	1640	1260	1260	1640
Height - Vertical air flow	mm	990	1200	990	990	990	1500	990	990	1500
Shipping weight	kg	205	265	230	275	330	390	320	380	500

LOW-NOISE version		1480B	2480A	2480B	2480C	2480D	2580B	2580D	2680A	2680B
<b>Air flow</b>	m <sup>3</sup> /h	50,400	102,000	95,200	91,800	81,600	119,000	102,000	137,700	122,400
<b>Noise level (*)</b>	db(A)	56	59	59	59	59	60	60	61	61
<b>Dimensions and weight</b>										
Length	mm	6330	5930	5930	5930	5930	7330	7330	8730	8730
Depth - Horizontal air flow	mm	800	800	800	800	800	800	800	800	800
Height - Horizontal air flow	mm	1540	2320	2320	2320	2320	2320	2320	2320	2320
Depth - Vertical air flow	mm	1640	2420	2420	2420	2420	2420	2420	2420	2420
Height - Vertical air flow	mm	1500	1500	1500	1500	1500	1500	1500	1500	1500
Shipping weight	kg	600	680	860	1040	1400	1080	1750	1560	2100

EXTRA LOW-NOISE version		1280A	1363B	1380A	1380B	1463B	1480A	1480B	2480A	2480B
<b>Air flow</b>	m <sup>3</sup> /h	15,800	12,450	23,700	22,500	15,600	31,600	30,000	60,800	57,600
<b>Noise level (*)</b>	db(A)	40	35	42	42	36	43	43	46	46
<b>Dimensions and weight</b>										
Length	mm	3330	3700	4830	4830	4870	6330	6330	5930	5930
Depth - Horizontal air flow	mm	800	600	800	800	600	800	800	800	800
Height - Horizontal air flow	mm	1540	1180	1540	1540	1180	1540	1540	2320	2320
Depth - Vertical air flow	mm	1640	1260	1640	1640	1260	1640	1640	2420	2420
Height - Vertical air flow	mm	1200	990	1500	1500	990	1500	1500	1500	1500
Shipping weight	kg	265	275	390	470	380	500	600	680	860

EXTRA LOW-NOISE version		2580A	2580B	2580D	2680A	2680B
<b>Air flow</b>	m <sup>3</sup> /h	76,000	72,000	62,000	81,600	74,400
<b>Noise level (*)</b>	db(A)	47	47	47	48	48
<b>Dimensions and weight</b>						
Length	mm	7330	7330	7330	8730	8730
Depth - Horizontal air flow	mm	800	800	800	800	800
Height - Horizontal air flow	mm	2320	2320	2320	2320	2320
Depth - Vertical air flow	mm	2420	2420	2420	2420	2420
Height - Vertical air flow	mm	1500	1500	1500	1500	1500
Shipping weight	kg	850	1080	1750	1560	2100

(\*) Sound pressure levels measured in free field conditions at 10 m from the unit.

## Remote condensers CHD - CLD - CQD

STANDARD Version	CHD 1263 B	CHD 1263 C	CHD 1363 B	CHD 1363 C	CHD 1380 A	CHD 1380 B	CHD 1463 A
Horizontal air flow	4.315	4.767	5.853	6.440	8.784	9.823	7.300
Vertical air flow	4.471	4.922	6.009	6.597	9.387	10.427	7.534
Version for use in combination with heat pump	4%	4%	4%	4%	4%	4%	4%

STANDARD Version Accessories	CHD 1263 B	CHD 1263 C	CHD 1363 B	CHD 1363 C	CHD 1380 A	CHD 1380 B	CHD 1463 A
Rubber antivibration mounts	514	514	1.028	1.028	1.028	1.028	1.285
Pre-painted aluminium condensing coil	332	437	503	661	885	1.156	682
Copper/copper condensing coil	1.823	2.402	2.765	3.635	4.867	6.358	3.749
Casing with non-standard paint RAL	359	406	479	550	864	963	618
Stainless steel casing	217	245	288	332	519	578	371
Pre-painted galvanized steel casing	73	82	97	111	174	193	125
Cond. control with fan speed control (-20 °C)	1.581	1.581	1.581	1.581	1.581	1.581	1.581
Packing in wooden crate	carton packing (standard)	carton packing (standard)	229	229	304	304	286

LOW-NOISE Version	CLD 1263 C	CLD 1280 A	CLD 1363 A	CLD 1363 B	CLD 1363 C	CLD 1380 A	CLD 1463 A
Horizontal air flow	4.767	6.343	5.197	5.853	6.440	8.784	7.300
Vertical air flow	4.922	6.806	5.352	6.009	6.597	9.387	7.534
Version for use in combination with heat pump	4%	4%	4%	4%	4%	4%	4%

LOW-NOISE Version Accessories	CLD 1263 C	CLD 1280 A	CLD 1363 A	CLD 1363 B	CLD 1363 C	CLD 1380 A	CLD 1463 A
Rubber antivibration mounts	514	771	1.028	1.028	1.028	1.028	1.285
Pre-painted aluminium condensing coil	437	578	347	503	661	885	682
Copper/copper condensing coil	2.402	3.180	1.906	2.765	3.635	4.867	3.749
Casing with non-standard paint RAL	406	616	418	479	550	864	618
Stainless steel casing	245	370	252	288	332	519	371
Pre-painted galvanized steel casing	82	123	85	97	111	174	125
Cond. control with fan speed control (-20 °C)	1.581	1.581	1.581	1.581	1.581	1.581	1.581
Packing in wooden crate	carton packing (standard)	253	229	229	229	304	286

For use in combination with condenserless units, see page 104.

### The basic unit includes:

- Certification to directive 97/23 EEC (PED);
- Main switch
- Contactors and fan guards;

## Remote condensers CHD - CLD - CQD

CHD 1463 B	CHD 1480 A	CHD 1480 B	CHD 2480 B	CHD 2480 C	CHD 2480 D	CHD 2580 B	CHD 2580 C	CHD 2580 D	CHD 2680 A	CHD 2680 B
8.091	11.245	12.601	19.084	20.982	24.666	23.183	25.511	30.032	30.200	35.670
8.324	11.991	13.347	19.986	21.883	25.568	24.254	26.582	31.103	31.440	36.910
4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%

CHD 1463 B	CHD 1480 A	CHD 1480 B	CHD 2480 B	CHD 2480 C	CHD 2480 D	CHD 2580 B	CHD 2580 C	CHD 2580 D	CHD 2680 A	CHD 2680 B
1.285	1.285	1.285	1.285	1.285	1.285	1.541	1.541	1.541	1.798	1.798
890	1.210	1.567	1.705	2.213	3.232	2.178	2.815	4.084	3.437	4.957
4.898	6.648	8.615	9.372	12.166	17.770	11.981	15.480	22.460	18.898	27.264
701	1.127	1.288	1.861	2.048	2.444	2.262	2.500	2.991	2.987	3.571
422	675	774	1.116	1.229	1.467	1.357	1.500	1.795	1.793	2.142
141	226	259	373	410	489	453	500	599	599	715
1.581	1.581	1.581	3.366	3.366	3.366	3.366	3.366	3.366	3.366	3.366
286	391	391	460	460	460	502	502	502	588	588

CLD 1463 B	CLD 1480 A	CLD 1480 B	CLD 2480 A	CLD 2480 B	CLD 2480 C	CLD 2480 D	CLD 2580 B	CLD 2580 D	CLD 2680 A	CLD 2680 B
8.091	11.245	12.601	17.185	19.084	20.982	24.666	23.183	30.032	30.200	35.670
8.324	11.991	13.347	18.086	19.986	21.883	25.568	24.254	31.103	31.440	36.910
4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%

CLD 1463 B	CLD 1480 A	CLD 1480 B	CLD 2480 A	CLD 2480 B	CLD 2480 C	CLD 2480 D	CLD 2580 B	CLD 2580 D	CLD 2680 A	CLD 2680 B
1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.541	1.541	1.798	1.798
890	1.210	1.567	1.194	1.705	2.213	3.232	2.178	4.084	3.437	4.957
4.898	6.648	8.615	6.565	9.372	12.166	17.770	11.981	22.460	18.898	27.264
701	1.127	1.288	1.656	1.861	2.048	2.444	2.262	2.991	2.987	3.571
422	675	774	993	1.116	1.229	1.467	1.357	1.795	1.793	2.142
141	226	259	332	373	410	489	453	599	599	715
1.581	1.581	1.581	2.666	2.666	2.666	2.666	2.666	2.666	3.366	3.366
286	391	391	460	460	460	460	502	502	588	588

## Remote condensers CHD - CLD - CQD

EXTRA LOW-NOISE Version	CQD 1280 A	CQD 1363 B	CQD 1380 A	CQD 1380 B	CQD 1463 B
Horizontal air flow	6.343	5.853	8.784	9.823	8.091
Vertical air flow	6.806	6.009	9.387	10.427	8.324
Version for use in combination with heat pump	4%	4%	4%	4%	4%

EXTRA LOW-NOISE Version Accessories	CQD 1280 A	CQD 1363 B	CQD 1380 A	CQD 1380 B	CQD 1463 B
Rubber antivibration mounts	771	1.028	1.028	1.028	1.285
Pre-painted aluminium condensing coil	578	503	885	1.156	890
Copper/copper condensing coil	3.180	2.765	4.867	6.358	4.898
Casing with non-standard paint RAL	616	479	864	963	701
Stainless steel casing	370	288	519	578	422
Pre-painted galvanized steel casing	123	97	174	193	141
Cond. control with fan speed control (-20 °C)	1.581	1.581	1.581	1.581	1.581
Packing in wooden crate	253	229	304	304	286

For use in combination with condenserless units, see next page.

**The basic unit includes:**

- Certification to directive 97/23 EEC (PED);
- Main switch
- Contactors and fan guards;

## Remote condensers CHD - CLD - CQD

CQD 1480 A	CQD 1480 B	CQD 2480 A	CQD 2480 B	CQD 2580 A	CQD 2580 B	CQD 2580 D	CQD 2680 A	CQD 2680 B
11.245	12.601	17.185	19.084	20.855	23.183	30.032	30.200	35.670
11.991	13.347	18.086	19.986	21.925	24.254	31.103	31.440	36.910
4%	4%	4%	4%	4%	4%	4%	4%	4%

CQD 1480 A	CQD 1480 B	CQD 2480 A	CQD 2480 B	CQD 2580 A	CQD 2580 B	CQD 2580 D	CQD 2680 A	CQD 2680 B
1.285	1.285	1.285	1.285	1.541	1.541	1.541	1.798	1.798
1.210	1.567	1.194	1.705	1.545	2.178	4.084	3.437	4.957
6.648	8.615	6.565	9.372	8.492	11.981	22.460	18.898	27.264
1.127	1.288	1.656	1.861	2.043	2.262	2.991	2.987	3.571
675	774	993	1.116	1.225	1.357	1.795	1.793	2.142
226	259	332	373	410	453	599	599	715
1.581	1.581	1.826	1.826	1.826	1.826	1.826	1.826	1.826
391	391	460	460	502	502	502	588	588

## Remote condensers CHD - CLD - CQD: COMBINATIONS

### Combination with SIGMA /LC condenserless units

SIGMA /LC	182	192	202	262
STANDARD Condenser	CHD 1263 B	CHD 1263 B	CHD 1263 C	CHD 1363 B
LOW-NOISE Condenser	CLD 1263 C	CLD 1363 A	CLD 1363 B	CLD 1363 C
EXTRA LOW-NOISE Condenser	CQD 1363 B	CQD 1280 A	CQD 1463 B	CQD 1380 A

### Combination with OMEGA /LC condenserless units

OMEGA /LC	501	601	701	702
STANDARD Condenser	CHD 1380 A	CHD 1380 B	CHD 1480 A	CHD 1480 A
LOW-NOISE Condenser	CLD 1480 A	CLD 1480 B	CLD 2480 A	CLD 2480 A
EXTRA LOW-NOISE Condenser	CQD 2480 A	CQD 2480 B	CQD 2480 B	CQD 2480 B

### Combination with OMEGA.V /LC condenserless units

OMEGA.V /LC	40	50	60	80
STANDARD Condenser	CHD 1380 A	CHD 1380 B	CHD 1480 A	CHD 2480 B
LOW-NOISE Condenser	CLD 1480 A	CLD 1480 B	CLD 2480 A	CLD 2480 C
EXTRA LOW-NOISE Condenser	CQD 2480 A	CQD 2480 B	CQD 2480 B	2 X CQD 2480 A

### Combination with OMEGA.V 2001 /LC condenserless units

OMEGA.V 2001 /LC	19.1	22.1	27.1	33.1
STANDARD Condenser	CHD 1480 A	CHD 1480 B	CHD 2480 B	CHD 2480 C
LOW-NOISE Condenser	CLD 2480 A	CLD 2480 B	CLD 2480 B	CLD 2480 D
EXTRA LOW-NOISE Condenser	CQD 2480 B	CQD 2580 B	CQD 2680 B	2 x CQD 2480 B
OMEGA.V 2001 /LC	58.1	60.2	65.2	71.2
STANDARD Condenser	CHD 2680 B	CHD 2480 B + CHD 2480 C	2 x CHD 2480 C	CHD 2480 C + CHD 2580 B
LOW-NOISE Condenser	2 x CLD 2480 C	CLD 2480 B + CLD 2480 D	2 x CLD 2480 D	CLD 2480 D + CLD 2580 D
EXTRA LOW-NOISE Condenser	2 x CQD 2680 B	CQD 2680 B + 2 x CQD 2480 B	4 x CQD 2480 B	2 x CQD 2480 B + 2 x CQD 2580 A

## Remote condensers CHD - CLD - CQD: COMBINATIONS

282	302	322	392	422	522
CHD 1363 B	CHD 1363 C	CHD 1363 C	CHD 1463 A	CHD 1463 B	CHD 1380 A
CLD 1280 A	CLD 1463 A	CLD 1463 B	CLD 1380 A	CLD 1380 A	CLD 1480 A
CQD 1380 A	CQD 1380 A	CQD 1380 B	CQD 1480 A	CQD 1480 B	CQD 2480 A

802	1002	1202	1502
CHD 1480 B	CHD 2480 B	CHD 2480 C	CHD 2580 B
CLD 2480 B	CLD 2480 C	CLD 2580 B	CLD 2580 D
CQD 2580 B	CQD 2680 A	CQD 2680 B	2 x CQD 2480 B

100	120
CHD 2480 C	CHD 2580 B
CLD 2580 B	CLD 2580 D
2 X CQD 2480 B	2 X CQD 2480 B

39.1	38.2	43.1	44.2	47.1	52.1	54.2
CHD 2580 B	CHD 2480 D	CHD 2580 C	CHD 2580 C	CHD 2580 D	CHD 2680 A	CHD 2680 A
CLD 2580 D	CLD 2580 D	CLD 2680 A	CLD 2680 A	CLD 2680 B	2 x CLD 2480 B	2 x CLD 2480 B
2 x CQD 2580 A	2 x CQD 2480 B	2 x CQD 2580 B	2 x CQD 2580 B	2 x CQD 2580 B	2 x CQD 2580 D	2 x CQD 2680 B

77.2	82.2	86.2	90.2	93.2	104.2	116.2
2 x CHD 2580 B	CHD 2580 B + CHD 2580 C	2 x CHD 2580 C	CHD 2580 C + CHD 2580 D	2 x CHD 2580 D	2 x CHD 2680 A	2 x CHD 2680 B
2 x CLD 2580 D	CLD 2580 D + CLD 2680 A	2 x CLD 2680 A	CLD 2680 A + CLD 2680 B	2 x CLD 2680 B	4 x CLD 2480 B	4 x CLD 2480 C
4 x CQD 2580 A	2 x CQD 2580 A + 2 x CQD 2580 B	4 x CQD 2580 B	4 x CQD 2580 B	4 x CQD 2580 B	4 x CQD 2580 D	4 x CQD 2680 B

**Pumping stations with centrifugal pumps,  
storage tank and expansion vessel  
for hydraulic cooling and  
heating systems.**



## GENERAL DESCRIPTION

### Unit frame

Galvanized steel frame and removable panels (for models 130-165-200-260-310-480), made of galvanized sheet steel stove-enamelled with polyester powder coating. Stainless steel screws.

### Electric pumps.

Two monobloc centrifugal pumps with direct motor-pump coupling by means of chromium steel driveshaft. Body and rotor in cast iron, mechanical seal, two pole three-phase electric motor with IP 54 electrical protection category.

The two pumps units are arranged in parallel and they operate alternately (one in stand-by). Single pump version available on request.

### Tank.

Galvanized steel tank with PVC coated expanded polyurethane cladding.

### Hydraulic circuit

Internal hydraulic circuit composed of flexible rubber hoses or steel pipes (sizes 380-690-920-1100), steel unions, check valves, gate valves, bleed valves, expansion vessel.

### Electrical panel

With main switch, thermal magnetic circuit breakers and pump contactors, pump ON/OFF selector.

### Testing

Factory tested for watertight seal and correct operation.

- Tank electric heater;
- No-frost heater for pumps;
- Automatic water filling kit;
- Safety valve;
- Pressure gauge;
- Rubber antivibration mounts;
- Spring antivibration mounts (380-690-920-1100);
- Single pump version.

## PSM - TECHNICAL DATA

Unit size		130	165	200	260	310
<b>Technical data</b>						
Nominal water flow rate	l/s	3,333	4,167	4,167	5,833	6,250
Available pressure	kPa	154	179	179	204	276
Tank capacity	l	400	600	700	700	700
Expansion vessel capacity	l	18	18	18	18	18
<b>Electrical data</b>						
Maximum power input	kW	1,5	1,5	1,5	2,2	3,1
Maximum starting current	A	22,4	22,4	22,4	24,9	51,5
Maximum current input	A	4,3	4,3	4,3	5,3	6,6
Power supply	V/~ /Hz	400V/3~/50	400V/3~/50	400V/3~/50	400V/3~/50	400V/3~/50
<b>Dimensions and weight</b>						
Width	mm	1003	1003	1104	1104	1104
Depth	mm	1053	1053	1154	1154	1154
Height	mm	1600	1600	2100	2100	2100
Weight	kg	260	302	358	404	404

Unit size		380	480	690	920	1100
<b>Technical data</b>						
Nominal water flow rate	l/s	13,611	13,889	14,583	23,333	23,333
Available pressure	kPa	163	176	281	213	294
Tank capacity	l	1100	700	1100	1100	1100
Expansion vessel capacity	l	25	18	25	25	25
<b>Electrical data</b>						
Maximum power input	kW	4	5,5	7,5	9,2	14
Maximum starting current	A	56,6	72	148,8	180	390
Maximum current input	A	9,6	12	16	19	30
Power supply	V/~ /Hz	400V/3~/50	400V/3~/50	400V/3~/50	400V/3~/50	400V/3~/50
<b>Dimensions and weight</b>						
Length	mm	2275	1104	2275	2275	2275
Depth	mm	1205	1154	1205	1205	1205
Height	mm	2078	2100	2078	2078	2078
Weight	kg	568	448	606	690	736

## PSM

<b>Basic unit</b>	<b>130</b>	<b>165</b>	<b>200</b>
<b>PSM</b>	7.541,00	7.954,00	8.780,00
<b>Miscellaneous accessories</b>	<b>130</b>	<b>165</b>	<b>200</b>
Spring antivibration mounts	-	-	-
Rubber antivibration mounts	259,00	259,00	362,00
Deduction for single pump version	878,00	878,00	878,00
Fully pre-assembled	569,00	569,00	827,00
Automatic water filling kit	362,00	362,00	362,00
Pressure gauge	259,00	259,00	259,00
No-frost heater for pumps	491,00	491,00	491,00
Tank electric heater	414,00	414,00	414,00
Safety valve	207,00	207,00	207,00
<b>Combinations*</b>	<b>130</b>	<b>165</b>	<b>200</b>
Beta 2002 - Zeta 2002	3,2÷7,2	8,2÷10,2	-
Kappa.V 2001	-	-	-
Sigma	182÷322	392÷422	-
Omega	-	-	501
Omega.V	-	-	-
Omega.V 2001	-	-	-

### The basic unit includes:

- Certification to directive 97/23 EEC (PED);

(\*) In combination with the various units, pump available pressure must be evaluated at the unit's effective flow rate.

# PSM

260	310	380	480	690	920	1100
9.710,00	9.968,00	11.001,00	11.001,00	12.189,00	12.912,00	13.222,00

260	310	380	480	690	920	1100
-	-	775,00	-	775,00	775,00	775,00
362,00	362,00	465,00	362,00	465,00	465,00	465,00
1.240,00	1.602,00	1.602,00	1.989,00	1.989,00	2.479,00	2.841,00
827,00	827,00	827,00	827,00	1.033,00	1.033,00	1.033,00
362,00	362,00	362,00	362,00	362,00	362,00	362,00
259,00	259,00	259,00	259,00	259,00	259,00	259,00
491,00	491,00	491,00	491,00	491,00	491,00	491,00
414,00	414,00	414,00	414,00	414,00	414,00	414,00
207,00	207,00	207,00	207,00	207,00	207,00	207,00

260	310	380	480	690	920	1100
12,2÷14,4	16,4	18,4÷26,4	-	-	-	-
-	-	16,1÷18,1÷23,1 - 27,1÷32,2	-	37,2	41,2 - 46,2÷50,2÷55,2	-
522	-	-	-	-	-	-
-	601	701÷702	802÷1202	1502	-	-
40	50	60÷100	-	120	-	-
-	-	19,1÷33,1	-	-	38,2÷60,2	65,2

## Dehumidifiers



## SCT 38

SCT dehumidifiers are high performance appliances designed for heavy-duty use, with a robust galvanised steel frame protected by an epoxy paint finish; equipped with castors for easy positioning.

All units are fitted with a washable filter and condensate tray with direct drain facility. Built-in humidity control.

Available with hot gas defrosting system to allow operation at low temperatures.

## MAIN COMPONENTS

Frame: galvanised steel frame with stove enamelled epoxy coating (colour RAL 7035). This treatment ensures a long working life and excellent corrosion resistance. All panels can be easily removed for immediate access to internal components. Condensate tray in stainless steel.

**Compressor**

Hermetic reciprocating compressor with suction gas cooled motor, direct start-up. The compressor is installed on special rubber antivibration mounts.

**Evaporator**

Direct expansion with spiralled aluminium tubes. Vertical installation. Equipped as standard with a mechanical air filter to protect the coil.

**Condenser**

Direct expansion type with mechanically expanded copper tubes and aluminium fins. Vertical installation.

**Fan**

Direct driven axial fan.

**Refrigerant circuit**

Filter drier, expansion capillary, solenoid valves set (for hot gas defrosting version only).

**Condensate collection tank**

Made in plastic, 8 litres capacity.

**Control panel**

Mainly comprising: local on/off switch, humidity control with knob, full tank led.

**Microprocessor board**

Installed as standard on all units, the microprocessor board manages demands from the humidity control, compressor operating times, defrost cycles, and alarms.

**Defrost thermostat**

Installed as standard on all units, the defrost thermostat signals the need for a defrost cycle to the microprocessor controller and set out defrost cycle duration.

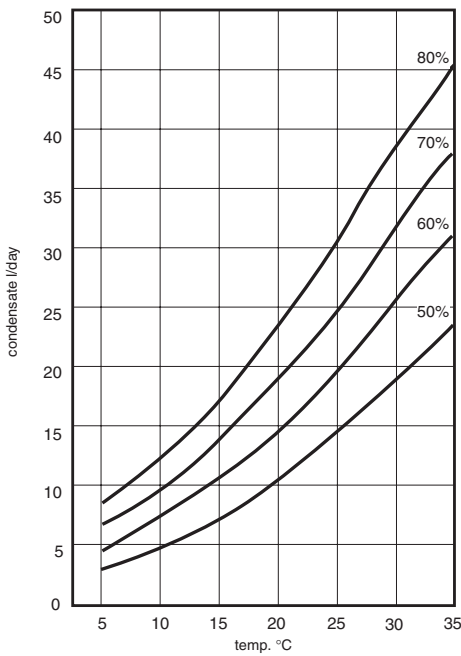
## ACCESSORIES

- Hot gas defrosting with set of solenoid valves on the refrigerant circuit (SCT/S)
- Condensate drain pump.

## SCT 38 - TECHNICAL DATA

Unit size		SCT38
Drying capacity (1)	l/day	38
Nominal power input (1)	kW	0.72
Maximum power input (2)	kW	0.84
Nominal current input (1)	A	3.6
Maximum current input (2)	A	4.0
Air flow	l/sec	0.17
	m <sup>3</sup> /h	600
Fan		Axial
Refrigerant		R134a
Sound pressure level (3)	dB (A)	49
Temperature operating range (4)	°C	1-5/35
Humidity operating range	%	30/99
Dimensions L-P-H	mm	430 x 360 x 655
Weight	kg	40
Power supply	V/ph/Hz	220/1~/50

## SCT38



- (1) at room temperature of 30°C / 80% RH.
- (2) at room temperature of 35°C / 90% RH.
- (3) at 1 meter in free hemispherical field.
- (4) minimum value: 1°C with hot gas defrosting option.

# SCT38

Unit
SCT
SCT/S

# SCT38

38

1.248,00

1.340,00

## Dehumidifiers



## MCT75 - MCT100 - MCT120

MCT dehumidifiers are high performance appliances designed for industrial and commercial applications in areas where humidity levels must be controlled and condensation must be prevented. Suitable for small swimming pools, archives, clothes pressing workrooms, dairies, basements, wineries and industrial sites where humidity is generated.

**Unit frame**

Galvanised steel frame with stove enamelled epoxy coating (colour RAL 7032 and RAL 9010). This treatment ensures a long working life and excellent corrosion resistance. All panels can be easily removed for immediate access to internal components. Condensate tray in stainless steel.

**Compressor**

Hermetic reciprocating compressor with suction gas cooled motor, direct start-up, high and low pressure gauge connectors. The compressor is installed on special rubber antivibration mounts.

**Evaporator**

Direct expansion type with mechanically expanded copper tubes and aluminium fins. Vertical installation with stainless steel condensate collection tray on the bottom. Equipped as standard with a mechanical air filter to protect the coil.

**Condenser**

Finned coil with mechanically expanded copper tubes and aluminium fins. Vertical type installation.

**Fan**

Double-suction centrifugal fan, statically and dynamically balanced and direct driven 3-speed motor, which ensure adequate available static pressure.

**Refrigerant circuit**

Filter drier, expansion capillary, high pressure switch, solenoid valve set (for hot gas defrosting version only).

**Electrical panel**

Mainly comprising: compressor fuses, fan fuses, auxiliary and control circuit fuses, compressor contactor, fan relay, terminal board with connections for remote on-off and humidity control, local on/off switch.

**Microprocessor card**

Installed as standard on all units, the microprocessor board manages demands from the humidity control, compressor operating times, defrost cycles, and alarms. A special LED board shows operating status, power ON, operating cycle activation or alarm presence.

**Defrost thermostat**

Installed as standard on all units, the defrost thermostat signals the need for a defrost cycle to the microprocessor controller and set out the relative duration.

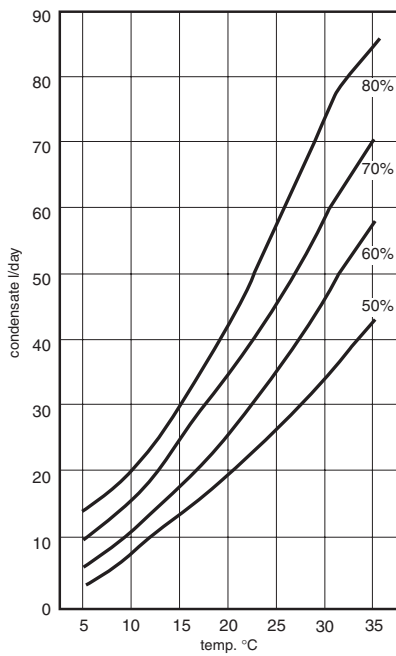
**ACCESSORIES**

- Mechanical humidity control on board:
  - with adjustment knob and working range from 30% to 100% with tolerance of 3%.
- Remote mechanical humidity control:
  - with adjustment knob and working range from 30% to 100% with tolerance of 3%.
- Wall mounting kit
- Hot gas defrosting with set of solenoid valves on the refrigerant circuit
- Condensate drain pump
- Castor wheels
- Power supply 400V/3~/50 Hz (only model MCT120)

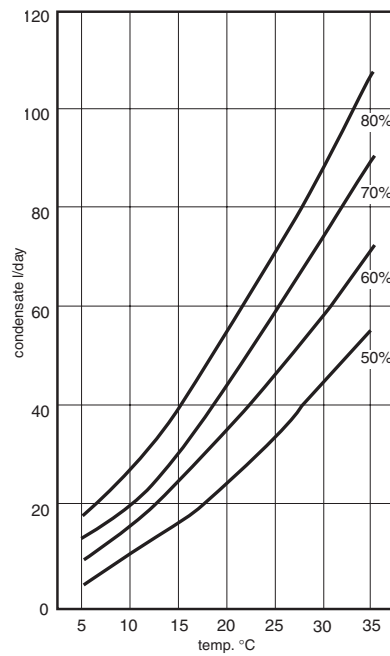
# MCT75 - MCT100 - MCT120 - TECHNICAL DATA

Unit size		MCT75	MCT100	MCT120
Drying capacity (1)	l/day	75	93.7	124
Nominal power input (1)	kW	1.45	1.65	2.15
Maximum power input (2)	kW	1.55	1.85	2.35
Nominal current input (1)	A	7.3	8.5	11.3
Maximum current input (2)	A	7.9	9.2	12.2
Air flow	l/sec	0.2777	0.2777	0.333
	m <sup>3</sup> /h	1,000	1,000	1,200
Effective static pressure	Pa	50	50	50
Refrigerant		R407C	R407C	1,1
Sound pressure level (3)	dB (A)	57	59	59
Temperature operating range (4)	°C	1-5/35	1-5/35	1-5/35
Humidity operating range	%	30/99	30/99	30/99
Dimensions L-P-H	mm	570 x 550 x 850	570 x 550 x 850	570 x 550 x 850
Weight	kg	78	82	79
Power supply	V/ph/Hz	230/1~/50	230/1~/50	230/1~/50

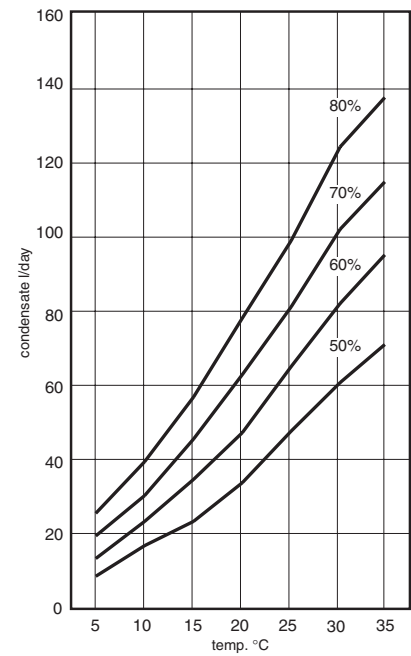
## MCT75



## MCT100



## MCT120



- (1) at room temperature of 30°C / 80% RH.
- (2) at room temperature of 35°C / 90% RH.
- (3) at 1 meter in free hemispherical field.
- (4) minimum value 1°C with hot gas defrosting option.

## MCT75 - MCT100 - MCT120

<b>Unit</b>	<b>75</b>
MCT	2.421,00
MCT/S	2.566,00
<b>Miscellaneous accessories</b>	<b>75</b>
Power supply 400V/3f/50Hz	-
Air filter (replacement)	30,00
Wall mounting kit	70,00
Peristaltic condensation drain pump	540,00
Castor wheels	72,00
HM120 mechanical humidity control on board range 30-100%RH	90,00
HG120 room mechanical humidity contro range 30-100%RH	130,00

# MCT75 - MCT100 - MCT120

100	120
2.853,00	3.346,00
2.998,00	3.500,00

100	120
-	287,00
30,00	30,00
70,00	70,00
540,00	540,00
72,00	72,00
90,00	90,00
130,00	130,00

## Dehumidifiers



### LCT130 - LCT160 - LCT200 - XLCT330

LCT dehumidifiers are high performance appliances designed for industrial and commercial applications in areas where humidity levels must be controlled and condensation must be prevented. Suitable for small swimming pools, archives, clothes pressing workrooms, dairies, basements, wineries and industrial sites where humidity is generated, etc.

### MAIN COMPONENTS

#### Unit frame

Galvanised steel frame with stove enamelled epoxy coating (colour RAL 7032 and RAL 9010). This treatment ensures a long working life and excellent corrosion resistance. All panels can be easily removed for immediate access to internal components. Condensate tray in stainless steel.

#### Compressor

Hermetic reciprocating compressor with suction gas cooled motor, direct start-up, high and low pressure gauge connectors. The compressor is installed on special rubber antivibration mounts.

#### Evaporator

Direct expansion type with mechanically expanded copper tubes and aluminium fins. Vertical installation with stainless steel condensate collection tray on the bottom. Equipped as standard with a mechanical air filter to protect the coil.

#### Condenser

Finned coil with mechanically expanded copper tubes and aluminium fins. Vertical installation.

#### Fan

Double-suction centrifugal fan, statically and dynamically balanced and direct driven 3-speed motor, which ensure adequate available static pressure.

#### Refrigerant circuit

Filter drier, thermostatic expansion valve, high pressure switch, low pressure switch, solenoid valve set (for hot gas defrosting version only).

#### Electrical panel

Mainly comprising: compressor fuses, fan fuses, auxiliary and control circuit fuses, compressor contactor, fan relay, terminal board with connections for remote on-off and humidity control, local on/off switch.

#### Microprocessor board

Installed as standard on all units, the microprocessor board manages demands from the humidity control, compressor operating times, defrost cycles, and alarms. A special LED card shows operating status, power ON, operating cycle activation or alarm presence.

#### Defrost thermostat

Installed as standard on all units, the defrost thermostat signals the need for a defrost cycle to the microprocessor controller and determines the relative duration.

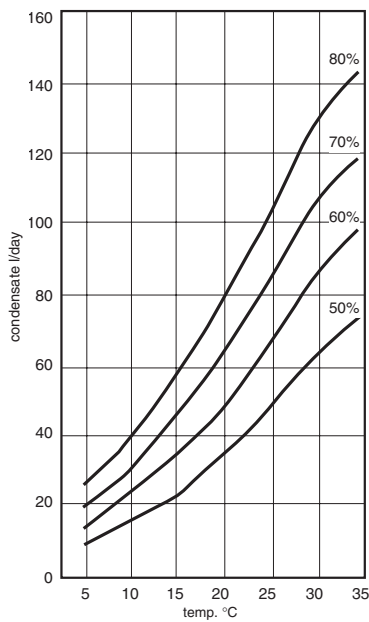
### ACCESSORIES

- Mechanical humidity control on board the appliance:
  - with adjustment knob and working range from 30% to 100% with tolerance of 3%.
- Remote mechanical humidity control:
  - with adjustment knob and working range from 30% to 100% with tolerance of 3%.
- Wall mounting kit (excluding DEAH 330)
- Hot gas defrosting:
  - with set of solenoid valves on the refrigerant circuit.
- Condensate drain pump.
- Castor wheels.
- Horizontal discharge plenum.

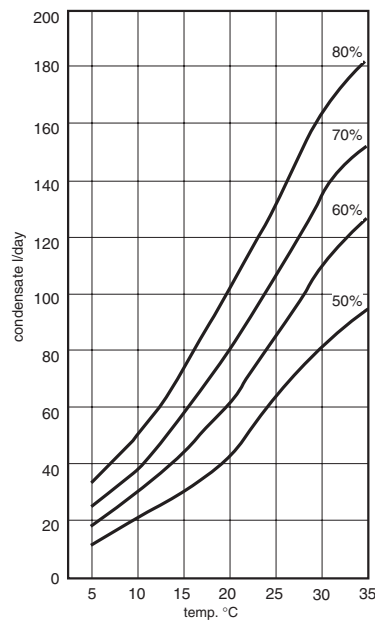
# LCT130 - LCT160 - LCT200 - XLCT330 - TECHNICAL DATA

Unit size		LCT130	LCT160	LCT200	XLCT330
Drying capacity (1)	l/day	128.8	164.3	194.1	330
Nominal power input (1)	kW	1.95	2.55	2.95	5.3
Maximum power input (2)	kW	2.15	2.85	3.25	5.8
Nominal current input (1)	A	4.8	5.9	7.6	13.5
Maximum current input (2)	A	5.1	6.4	8.1	14.2
Air flow	l/sec	0.360	0.390	0.530	1.055
	m <sup>3</sup> /h	1300	1400	1900	3800
Available static pressure	Pa	50	50	50	50
Refrigerant		R407C	R407C	R407C	R407C
Sound pressure level (3)	dB (A)	60	61	62	66
Temperature operating range (4)	°C	1-5/35	1-5/35	1-5/35	1-5/35
Humidity operating range	%	30/99	30/99	30/99	30/99
Dimensions L-P-H	mm	700 x 570 x 850	700 x 570 x 850	700 x 570 x 850	1,080 x 638 x 1,280
Weight	kg	100	102	108	188
Power supply	V/ph/Hz	400/3~+N/50	400/3~+N/50	400/3~+N/50	400/3~+N/50

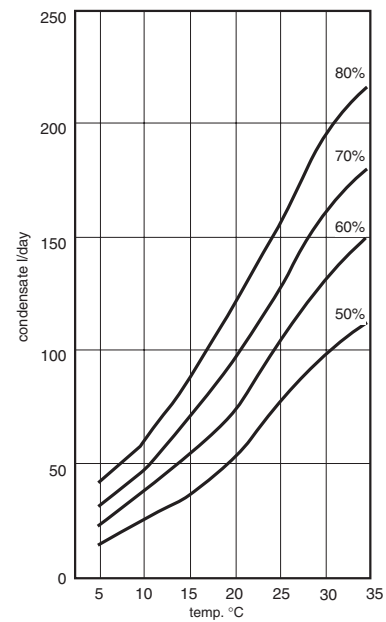
## LCT130



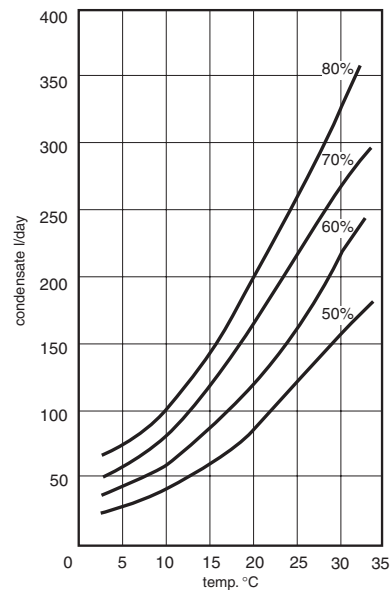
## LCT160



## LCT200



## XLCT330



- (1) at room temperature of 30°C / 80% RH.
- (2) at room temperature of 35°C / 90% RH.
- (3) at 1 meter in a free hemispherical field.
- (4) minimum value 1°C with hot gas defrosting option.

## LCT130 - LCT160 - LCT200 - XLCT330

Unit	130
LCT	4.150,00
LCT/S	4.330,00
XLCT	-
XLCT/S	-

Accessories	130
Air filter (replacement)	32,00
Wall mounting kit	70,00
Horizontal discharge plenum	160,00
Peristaltic condensate drainage pump	540,00
Castor wheels	72,00
HM120 mechanical humidity control on board range 30-100%RH	90,00
HG120 room mechanical humidity control range 30-100%RH	130,00

# LCT130 - LCT160 - LCT200 - XLCT330

160	200	330
4.520,00	4.940,00	-
4.700,00	5.140,00	-
-	-	7.866,00
-	-	8.170,00

160	200	330
32,00	32,00	40,00
70,00	70,00	-
160,00	160,00	160,00
540,00	540,00	540,00
72,00	72,00	100,00
90,00	90,00	90,00
130,00	130,00	130,00

## Dehumidifiers



### TCT560 - TCT 740 - TCT 940

TCT dehumidifiers are high performance appliances designed for industrial and commercial uses in environments where humidity levels must be controlled and condensation must be prevented. Suitable for small swimming pools, archives, clothes pressing workrooms, dairies, basements, wineries and industrial sites where humidity is generated and in areas where large air volumes are to be dehumidified.

### MAIN COMPONENTS

#### Unit frame

Galvanised steel frame with stove enamelled epoxy coating (colour RAL 7032 and RAL 9010). This treatment ensures a long working life and excellent corrosion resistance. All panels can be easily removed for immediate access to internal components. Condensate tray in stainless steel.

#### Compressor

Hermetic reciprocating compressor with suction gas cooled motor, direct start-up, high and low pressure gauge connectors. The compressor is installed on special rubber antivibration mounts.

#### Evaporator

Direct expansion with mechanically expanded copper tubes and aluminium fins. Vertical installation with stainless steel condensate collection tray on the bottom. Equipped as standard with a mechanical air filter to protect the coil.

#### Condenser

Finned coil with mechanically expanded copper tubes and aluminium fins. Vertical installation.

#### Fan

Double-suction centrifugal fan, statically and dynamically balanced and direct driven 3-speed motor, which ensure adequate available static pressure.

#### Refrigerant circuit

Filter drier, thermostatic expansion valve, high pressure switch, low pressure switch, solenoid valve set (for hot gas defrosting version only).

#### Electrical panel

Mainly comprising: compressor fuses, fan fuses, auxiliary and control circuit fuses, compressor contactor, fan relay, terminal board with connections for remote on-off and humidity control, local on/off switch.

#### Microprocessor board

Installed as standard on all units, the microprocessor boards manage demands from the humidity control, compressor operating times, defrost cycles, and alarms. A special LED board shows operating status, power ON, operating cycle activation or alarm presence.

#### Defrost thermostat

Installed as standard on all units, the defrost thermostat signals the need for a defrost cycle to the microprocessor controller and set out the relative duration.

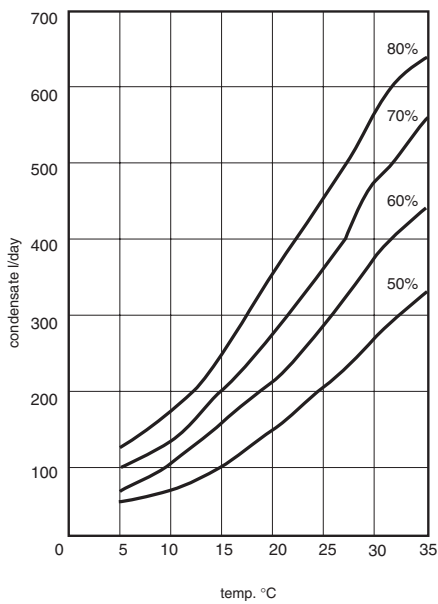
### ACCESSORIES

- Mechanical humidity control on board:
  - with adjustment knob and working range from 30% to 100% with tolerance of 3%.
- Remote mechanical humidity control:
  - with adjustment knob and working range from 30% to 100% with resolution of 3%.
- Wall mounting kit
- Hot gas defrosting with set of solenoid-valves on the refrigerant circuit .
- Condensate drain pump.
- Castor wheels.
- Horizontal discharge plenum.

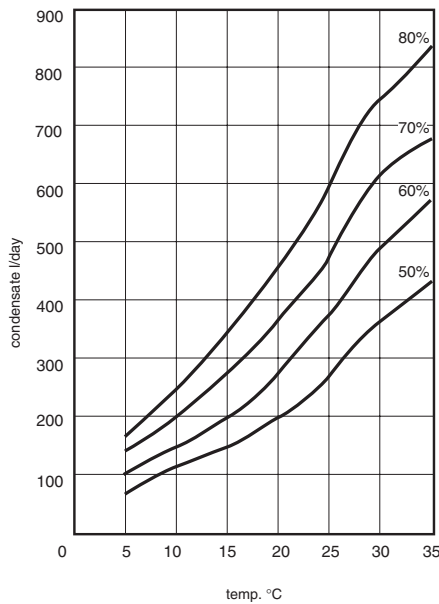
# TCT560 - TCT740 - TCT940 - TECHNICAL DATA

Unit size		TCT560	TCT740	TCT940
Drying capacity (1)	l/day	564	740	940
Nominal power input (1)	kW	7.9	10.2	13.4
Maximum power input (2)	kW	8.7	11.3	14.9
Nominal current input (1)	A	20.5	21.2	26.1
Maximum current input (2)	A	21.7	22.7	28.1
Air flow	l/sec	1,430	1,903	2,277
	m <sup>3</sup> /h	5150	6850	8200
Available static pressure	Pa	50	50	50
Sound pressure level (3)	dB (A)	72	73	74
Refrigerant		R407C	R407C	R407C
Temperature operating range (4)	°C	1-5/35	1-5/35	1-5/35
Humidity operating range	%	30/99	30/99	30/99
Dimensions L-P-H	mm	1000 x 1630 x 1410	1000 x 1630 x 1410	1000 x 1630 x 1410
Power supply	V/ph/Hz	400/3~+N/50	400/3~+N/50	400/3~+N/50

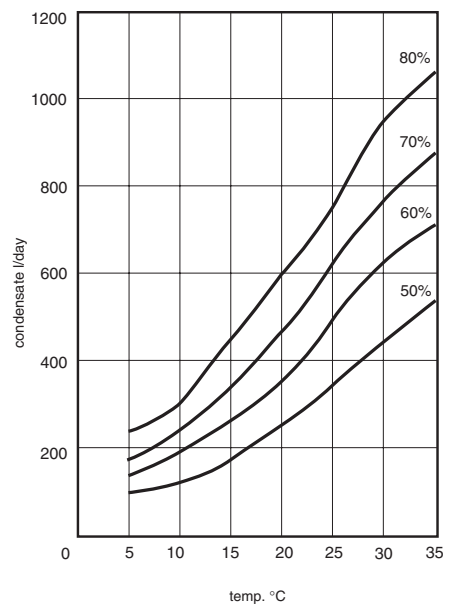
## TCT560



## TCT740



## TCT940



- (1) at room temperature of 30°C / 80% RH.
- (2) at room temperature of 35°C / 90% RH.
- (3) at 1 meter in free hemispherical field.
- (4) minimum value 1°C with hot gas defrosting option.

## TCT560 - TCT740 - TCT940

Unit	560
TCT	12.227,00
TCT/S	12.646,00

Accessories	560
Peristaltic condensate drainage pump	540,00
HM120 mechanical humidity control on board range 30-100%RH	90,00
HG120 room mechanical humidity control range 30-100%RH	130,00

# TCT560 - TCT740 - TCT940

740	940
13.834,00	15.800,00
14.273,00	16.252,00

740	940
540,00	540,00
90,00	90,00
130,00	130,00

## Dehumidifiers



### LCT200BT - XLCT330BT - XLCT400BT

LCT low temperature dehumidifiers are high performance appliances designed for use in storage rooms where the humidity level must be controlled level during storage.

#### MAIN COMPONENTS

##### Unit frame

Galvanised steel frame with stove enamelled epoxy coating (colour RAL 7032 and RAL 9010). This treatment ensures a long working life and excellent corrosion resistance. All panels can be easily removed for immediate access to internal components. Condensate tray in stainless steel.

##### Compressor

Hermetic reciprocating compressor with suction gas cooled motor, direct start-up, high and low pressure gauge connectors, crankcase heater. The compressor is installed on special rubber antivibration mounts.

##### Evaporator

Direct expansion with mechanically expanded copper tubes and aluminium fins. Vertical installation with stainless steel condensate collection tray on the bottom and electric heater. Equipped as standard with a mechanical air filter to protect the coil.

##### Condenser

Finned coil with mechanically expanded copper tubes and aluminium fins. Vertical installation.

##### Fan

Double-suction centrifugal fan, statically and dynamically balanced and direct driven 3-speed motor, which ensure adequate available static pressure.

##### Refrigerant circuit

Filter drier, thermostatic expansion valve, high pressure switch, low pressure switch, solenoid valves set, suction liquid separator.

##### Electrical panel

Including: compressor fuses, fan fuses, auxiliary and control circuit fuses, compressor contactor, fan relay, terminal board with connections for remote on-off and humidity control, local on/off switch.

##### Microprocessor board

Installed as standard on all units, the microprocessor board manages demands from the humidity control, compressor operating times, defrost cycles, and alarms. A special LED board shows operating status, power ON, operating cycle activation or alarm presence.

##### Defrost thermostat

Installed as standard on all units, the defrost thermostat signals the need for a defrost cycle to the microprocessor controller and set out defrost cycle duration.

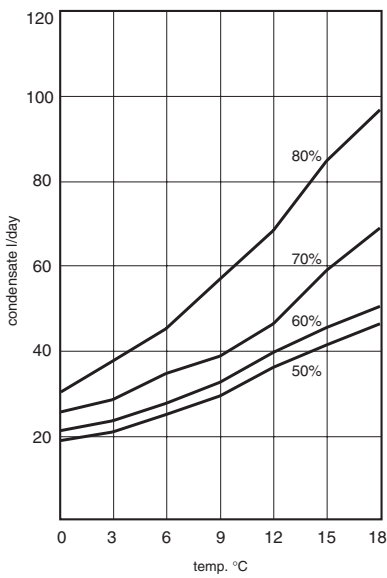
#### ACCESSORIES

- Mechanical humidity control on board:
  - with adjustment knob and working range of from 30% to 100% with a tolerance of 3%.
- Remote mechanical humidity control:
  - with adjustment knob and working range of from 30% to 100% with a tolerance of 3%.
- Condensate drain pump.
- Castor wheels.

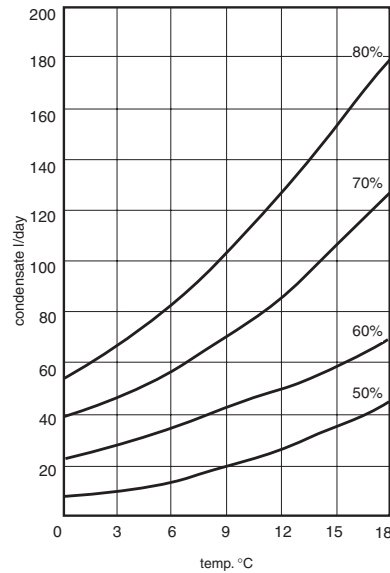
# LCT200BT - XLCT330BT - XLCT400BT - TECHNICAL DATA

Unit size		LCT200BT	XLCT330BT	XLCT400BT
Drying capacity (1)	l/day	85	156	190
Nominal power input (1)	kW	2.45	4.3	5.4
Maximum power input (2)	kW	2.65	4.7	5.9
Nominal current input (1)	A	5.4	12.0	14.0
Maximum current input (2)	A	5.9	12.4	14.7
Air flow	l/sec	0,528	1,000	1,139
	m3/h	1900	3600	4100
Available static pressure	Pa	50	50	50
Refrigerant		R407C	R407C	R407C
Sound pressure level (3)	dB (A)	62	66	67
Temperature operating range	°C	-1/15	-1/18	-1/18
Humidity operating range	%	30/99	30/99	30/99
Dimensions L-P-H	mm	570 x 700 x 850	1080 x 638 x 1280	1080 x 638 x 1280
Weight	kg	175	184	188
Power supply	V/ph/Hz	400/3~+N/50	400/3~+N/50	400/3~+N/50

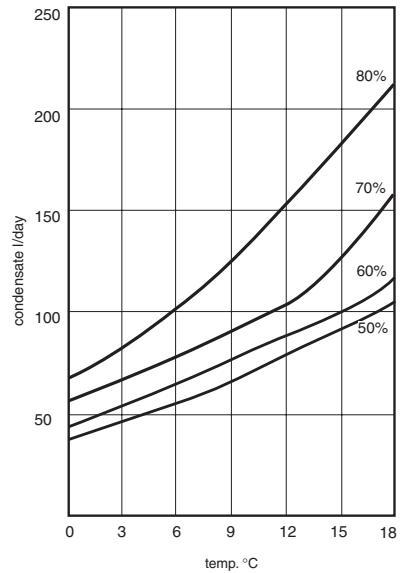
## LCT200BT



## XLCT330BT



## XLCT400BT



- (1) at room temperature of 15°C / 80% RH.
- (2) at room temperature of 18°C / 80% RH.
- (3) at 1 meter in a free hemispherical field.

## LCT200BT - XLCT330BT - XLCT400BT

<b>Unit</b>	<b>200</b>
LCT BT	5.510,00
XLCT BT	-

<b>Accessories</b>	<b>200</b>
Air filter (replacement)	32,00
Wall mounting kit	70,00
Horizontal discharge plenum	160,00
Peristaltic condensate drainage pump	540,00
Castor wheels	72,00
HM120 mechanical humidity control on board range 30-100%RH	90,00
HG120 room mechanical humidity control range 30-100%RH	130,00

# LCT200BT - XLCT330BT - XLCT400BT

330	400
-	-
8.648,00	9.500,00

330	400
40,00	40,00
-	-
160,00	160,00
540,00	540,00
-	-
90,00	90,00
130,00	130,00

## Dehumidifiers



### XTCT560BT-XTCT740BT-XTCT940BT

XTCT low temperature dehumidifiers are high performance appliances designed for use in storage rooms where the humidity level must be controlled level during storage. A special, innovative patented device allows continuous operation, avoiding the pauses due to defrosting cycles and at the same time guaranteeing considerable energy savings in energy.

### MAIN COMPONENTS

#### Unit frame

Galvanised steel frame with stove enamelled epoxy coating (colour RAL 7032 and RAL 9010). This treatment ensures a long working life and excellent corrosion resistance. All panels can be easily removed for immediate access to internal components. Condensate tray in stainless steel.

#### Compressor

Hermetic reciprocating compressor suction gas cooled motor, direct start-up, high and low pressure gauge connections, crankcase heater. The compressor is installed on special rubber antivibration mounts.

#### Evaporator

Direct expansion with mechanically expanded copper tubes and aluminium fins. Vertical installation with stainless steel condensate collection tray at the base and electric heater. Equipped as standard with a mechanical air filter to protect the coil.

#### Condenser

Finned coil with mechanically expanded copper tubes and aluminium fins. Vertical installation.

#### Fan

Double-suction centrifugal fan, statically and dynamically balanced and directly coupled to three-speed motor, to ensure adequate available static pressure.

#### Refrigerant circuit

Drier filter, thermostatic expansion valve, high pressure switch, low pressure switch, solenoid valves set, suction liquid separator.

#### Electrical panel

Including: compressor fuses, fan fuses, auxiliary and control circuit fuses, compressor contactor, fan relay, terminal board with connections for remote on-off and humidity control, local on/off switch.

#### Microprocessor board

Installed as standard on all units, the microprocessor board manages demands from the humidity control, compressor operating times, defrost cycles, and alarms. A special LED board shows operating status, power ON, operating cycle activation or alarm presence.

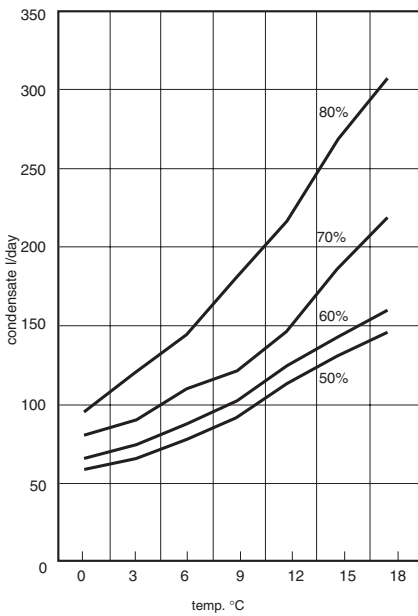
### ACCESSORIES

- Mechanical humidity control on board:
  - with adjustment knob and working range from 30% to 100% with tolerance of 3%.
- Remote mechanical humidity control:
  - with adjustment knob and working range from 30% to 100% with tolerance of 3%.
- Condensate drain pump.
- Castor wheels.

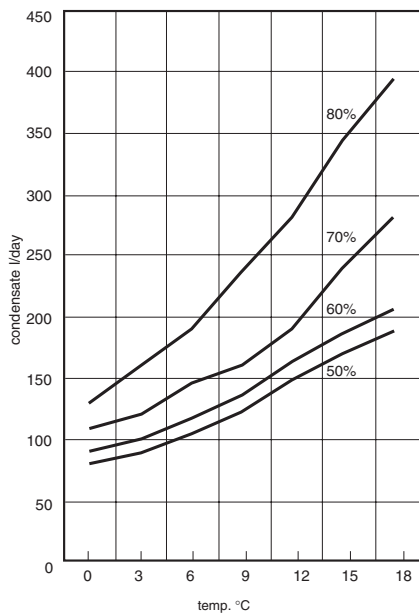
# XTCT560BT - XTCT740BT - XTCT940BT - TECHNICAL DATA

Unit size		XTCT560	XTCT740	XTCT940
Drying capacity (1)	l/day	270	357	457
Nominal power input (1)	kW	6.6	8.4	11.1
Maximum power input (2)	kW	7.2	9.3	12.2
Nominal current input (1)	A	13	14.6	19.4
Maximum current input (2)	A	13.9	15.8	20.9
Air flow	l/sec	2,888	3,806	5
	m3/h	10400	13700	16400
Refrigerant		R407C	R407C	R407C
Sound pressure level (3)	dB(A)	70	71	72
Temperature operating range	°C	-5/15	-5/15	-5/15
Humidity operating range	%	30/99	30/99	30/99
Condensation drainage connection	mm	16	16	16
Dimensions L-P-H	mm	1100 x 1630 x 1410	1100 x 1630 x 1410	1100 x 1630 x 1410
Weight	kg	425	442	460
Power supply	V/ph/Hz	400/3~+N/50	400/3~+N/50	400/3~+N/50

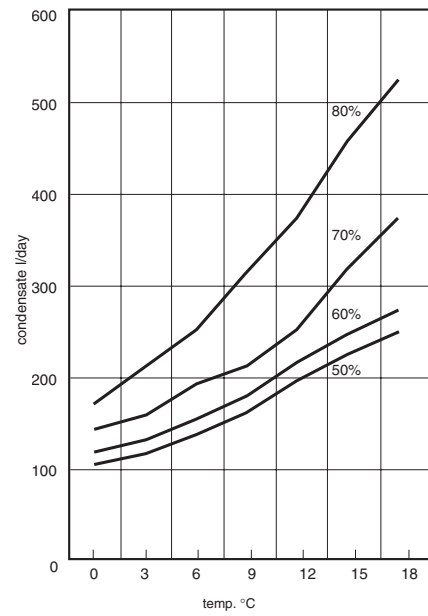
## XTCT560



## XTCT740



## XTCT940



(1) at room temperature of 15°C / 80% RH.  
 (1) at room temperature of 18°C / 80% RH.  
 (3) at 1 meter in a free hemispherical field.

## XTCT560BT - XTCT740BT - XTCT940BT

<b>Unit</b>	<b>560</b>
XTCT BT	14.243,00
<b>Miscellaneous accessories</b>	<b>560</b>
Peristaltic condensate drainage pump	540,00
HM120 Mechanical humidity control on board range 30-100%RH	90,00
HG120 Room mechanical humidity control range 30-100%RH	130,00

# ХТСТ560ВТ - ХТСТ740ВТ - ХТСТ940ВТ

740	940
16.100,00	18.455,00

740	940
540,00	540,00
90,00	90,00
130,00	130,00

Dehumidifiers



SMCT100 - SMCT120 - SMCT160 - SMCT200 - SMCT330

SMCT dehumidifiers are high performance appliances specially designed for use in swimming pools, where the humidity levels must be controlled, to prevent condensation and ensure environmental comfort. Suitable for small swimming pools or whirlpool bath facilities. These appliances are designed for installation in a technical room adjacent to the pool.

MAIN COMPONENTS

Unit frame

Galvanised steel frame with stove enamelled epoxy coating (colour RAL 7032 and RAL 9010). This treatment ensures a long working life and excellent corrosion resistance. All panels can be easily removed for immediate access to internal components. Condensate tray in stainless steel.

Compressor

Hermetic reciprocating compressor with suction gas cooled motor, direct start-up, high and low pressure gauge connections. The compressor is installed on special rubber antivibration mounts.

Evaporator

Direct expansion with mechanically expanded copper tubes and pre-painted aluminium fins. Vertical type installation with stainless steel condensate collection tray at the base. Equipped as standard with a mechanical air filter to protect the coil.

Condenser

Finned coil with mechanically expanded copper tubes and pre-painted aluminium fins. Vertical type installation.

Fan

Double-suction centrifugal fan, statically and dynamically balanced and direct driven 3-speed motor, which ensure adequate available static pressure (200 Pa).

Desuperheater (optional)

Tube in tube type, with 316 AISI stainless steel tube on the water side and copper tube on the refrigerant side. This components allows part of the rejection to be recovered and transferred to the swimming pool water, heating it. The unit must be connected to a pool water supply line. Installation of handwheel operated shut-off valves for flow rate regulation is strongly recommended.

Hot water coil (optional)

Finned coil with mechanically expanded copper tubes and pre-painted aluminium fins. Horizontal installation. If a hot water heating system is available, the heating coil makes it possible to heat the pool room. The coil must be connected to a hot water pipeline connected to heating system. It also requires a circulator pump with external thermostat regulation (not supplied).

Refrigerant circuit

Drier filter, thermostatic expansion valve, high pressure switch, low pressure switch.

Electrical panel

Including: compressor fuses, fan fuses, auxiliary and control circuit fuses, compressor contactor, fan relay, terminal board with connections for remote on-off and humidity control, local on/off switch.

Microprocessor board

Installed as standard on all units, the microprocessor board manages demands from the humidity control, compressor operating times, defrost cycles, and alarms. A special LED board shows operating status, power ON, operating cycle activation or alarm presence.

rating status, power ON, operating cycle activation or alarm presence.

Defrost thermostat

Installed as standard on all units, the defrost thermostat signals the need for a defrost cycle to the microprocessor controller and set out defrost cycle duration.

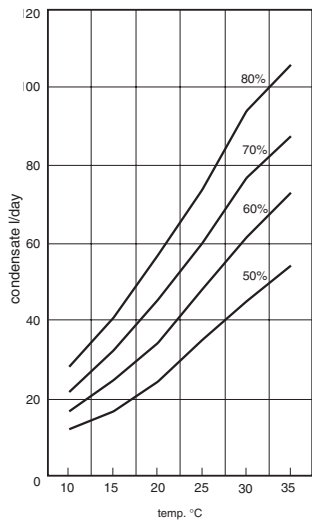
ACCESSORIES

- Desuperheater.
- Hot water coil.
- Condensate drain pump.

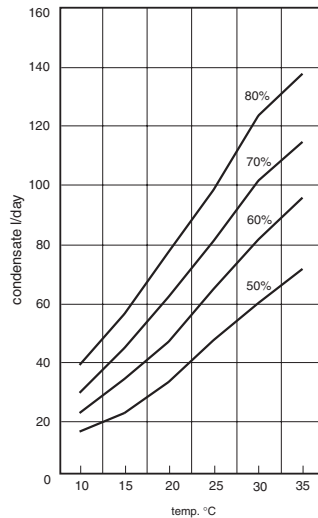
# SMCT100 - SMCT120 - SMCT160 - SMCT200 - SMCT330 - TECHNICAL DATA

Unit size		SMCT100	SMCT120	SMCT160	SMCT200	SMCT330
Drying capacity (1)	l/day	93,7	124	160	200	330
Nominal power input (1)	kW	1.65	2.15	2.55	2.95	5.3
Maximum power input (2)	kW	1.85	2.35	2.85	3.25	5.8
Nominal current input (1)	A	8.5	11.3	5.9	7.6	13.5
Maximum current input (2)	A	9.2	12.2	6.4	8.1	14.2
Hot water coil output (3)	kW	8.6	8.6	11.2	14.1	21.8
Water flow rate	l/h	740	740	963	1213	1920
Pressure drops	kPa	15	15	15	22	22
Recovery exchanger duty (4)	kW	1.35	1.35	2	2.6	4.7
Water flow rate	l/h	232	232	344	447	817
Water pressure drop	kPa	30	30	30	30	32
Air flow	l/sec	0.2777	0.333	0.388	0.528	1.055
Available static pressure	Pa	200	200	180	180	230
Refrigerant		R407C	R407C	R407C	R407C	R407C
Sound pressure level (5)	dB(A)	61	62	62	62	67
Temperature operating range	°C	10/36	10/36	10/36	10/36	10/36
Humidity operating range	%	30/99	30/99	30/99	30/99	30/99
Condensation drainage connector	mm	16	16	16	16	1/2" F
Dimensions L-P-H	mm	780 x 570 x 850	780 x 570 x 850	700 x 570 x 1750	700 x 570 x 1750	1004 x 635 x 1283
Weight	kg	133	147	159	180	175
Power supply	V/ph/Hz	230/1~+N/50	230/1~+N/50	400/3~+N/50	400/3~+N/50	400/3~+N/50

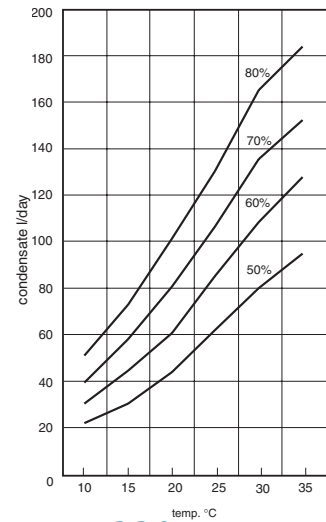
## SMCT100



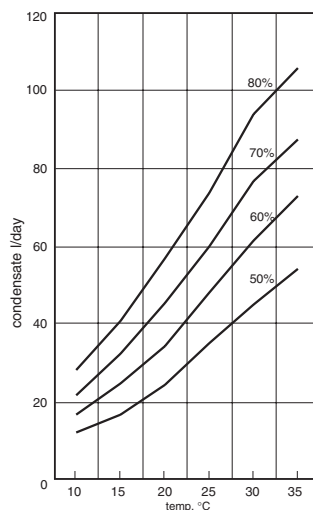
## SMCT120



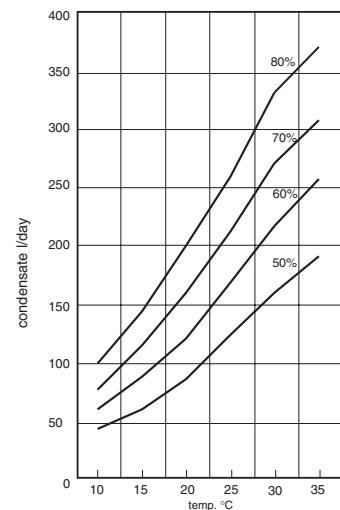
## SMCT160



## SMCT200



## SMCT330



- (1) at room temperature of 30°C / 80% RH.  
 (2) at room temperature of 35°C / 80% RH.  
 (3) at room temperature of 32°C and water in-out temp. of 80-70°C.

- (4) at water in-out temperature of 25-30°C.  
 (5) at 1 meter in a free hemispherical field.

## SMCT100 - SMCT120 - SMCT160 - SMCT200 - SMCT330

Unit	100	120
SMCT	4.357,00	5.084,00
Accessories	100	120
Water post-heating coil	240,00	240,00
Desuperheater	400,00	400,00
Peristaltic condensate drainage pump	540,00	540,00
HM120 Mechanical humidity control on board range 30-100%RH	90,00	90,00
HG120 Room mechanical humidity control range 30-100%RH	130,00	130,00

# SMCT100 - SMCT120 - SMCT160 - SMCT200 - SMCT330

160	200	330
6.144,00	6.424,00	8.994,00

160	200	330
320,00	320,00	500,00
482,00	482,00	798,00
540,00	540,00	540,00
90,00	90,00	90,00
130,00	130,00	130,00

