AIR HEAT
EXCHANGER
MANUFACTURER

PRODUCT OVERVIEW

stefani®
SMART THINKING

W	A	C	H
DRY COOLERS	**CONDENSERS** NH_3	**GAS COOLERS**	**CONDENSERS** All synthetic refrigerants

OSTRO W	OSTRO A	OSTRO C	OSTRO H
V-Type Double-Row			4

ZONDA W	ZONDA A	ZONDA C	ZONDA H
V-Type Single-Row			14

SCIROCCO W	SCIROCCO A	SCIROCCO C	SCIROCCO H
Table-Type			22

AIR COOLERS	AIR COOLERS	AIR COOLERS	AIR COOLERS
Glycol - Brine	Pumped NH_3	Direct expansion and pumped CO_2	All synthetic refrigerants

GRECALE W	GRECALE A	GRECALE C	GRECALE H
Industrial Cubic			30

ZEFIRO W	ZEFIRO C	ZEFIRO H
Dual Discharge		34

BOREA W	BOREA C	BOREA H
Commercial Cubic		38

BREEZE W	BREEZE C	BREEZE H
Angled		42

OSTRO W

V-Type Double-Row Dry Cooler

OSTRO is a product range designed to meet the needs of high capacity exchange in dry cooler and condenser operation for the industrial process, HVAC air conditioning and refrigeration.

With the PAD or SPRAY versions the capacity increases, thanks to water injection, are very significant and guarantee a legionella-free solution.

- High heat exchange performance with the Large version.
- Decidedly robust coil and casing.
- Solution with triple configuration - Dry, Spray and PAD.
- A super complete range of fans and coolants.

RANGE

Unit length	up to 12,8 m
Versions available	with stainless steel pipes and casing
Fin spacing range	1,8 up to 3,6 mm
Fan size Ø	800 mm - 900 mm
DT15°C EG 35% capacity	220 ÷ 2442 kW in the Dry version
Number of fans	4 ÷ 22
Fin material	Al, Al-Mg, Cu, Al pv, Al cath

FLUIDS AVAILABLE

Water
Glycol
Liquids on specific feature

WARRANTY 3 YEAR WARRANTY

2442 kW

CAPACITIES UP TO 2442 kW DT15°C, EG 35% IN THE DRY VERSION

3000 kW

CAPACITIES UP TO 3000 kW DT15°C, EG 35% IN THE ADIABATIC VERSION

322 models
in 2 configurations

990 kW
DT15K EG 35% AC fan 45 dB(A) 10 m.
High capacities with low noise

Up to 75 kW/m²
DT15 EG 35%. High capacity density

PERFORMANCE

Performance in kW versus market (+5/+15%)
with the same ventilation and coil size.

Fan consumption at market minimums (-3/-10%)
with the same ventilation and coil size.

Consumption < 0.5% of the capacity exchanged,
up to 1.0 MW DT15°C, EG 35% with EC motors.

SOLIDITY

High thicknesses
of pipes and fins.

Casing in painted plate 20/10
for excellent strength.

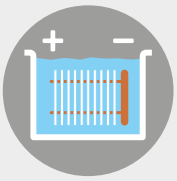
Connection protected
thanks to header protection pannels.

Optimised transport
with units sized for container transport.

OSTRO W

V-Type Double-Row Dry Cooler

Super silent versions
using EC motors and silencers.

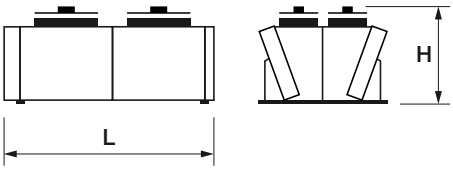


High corrosion resistance
with electrolytic coating treatments.

Versions with ADIABATIC operation
with non-organic PAD.

Excellent aeraulics
thanks to air flow separation baffles longitudinal and transverse.

CONFIGURATIONS



RANGE	MODELS	FANS		CAPACITY	POLES	H max	L max
	Nr.	Nr.	Ø mm	DT 15K	NR.	mm	mm
OSTRO W 80	28	4 ÷ 16	800	158,3 ÷ 1275 kW	6	2295	11626
OSTRO-L W 80	36	4 ÷ 20	800	86,7 ÷ 1611 kW	6	2646	12786
OSTRO W 90	84	4 ÷ 16	900	72,6 ÷ 1719 kW	4 - 6 - 12	2295	11626
OSTRO-L W 90	108	4 ÷ 20	900	73,2 ÷ 2178 kW	4 - 6 - 12	2646	12786
OSTRO XL W 90	66	8 - 22	900	242 - 2442 kW	4 - 6 - 12	3207	12782

COIL
In OSTRO series units, the coil dedicated to heat exchange during cooling is of the latest generation and adopts a geometry (tube and row spacing) that optimizes the exchange capacity in absolute terms, specific to ventilation absorption.
The adoption of thick fins and the strong turbulence contribute to the remarkable heat exchange capacity of OSTRO units.
All coils undergo hydraulic testing at 16 bar.

STRUCTURE
In the OSTRO series units, the air circulation is very effective thanks to the adoption of an exchange V that optimizes the aeraulics in the lower part of the machine.
The adoption of transverse and longitudinal baffles optimizes the design by excluding possible interference between one ventilation and another.
OSTRO units also adopt the latest generation cowls and fans that guarantee silent operation and excellent machine performance, eliminating any possibility of recirculating spoiled air.

VENTILATION
The OSTRO series units are equipped with fans with the latest AC and EC technology that allow continuous speed control with motor management. The drive motor, fan blades and protective grid construction form an optimal ventilating unit with an external rotor. The drive motors are quiet and maintenance-free.
All fans are subject to balancing quality Q 6.3 according to VDI 2060.
The axial fans are easy to maintain with the thermal contacts integrated in the motor winding.

ACCESSORIES

ACCESSORIES	OSTRO W		OSTRO-L W		OSTRO XL W
	80	90	80	90	90
AISI 304 casing	○	○	○	○	○
Increased fin spacing	●	●	●	●	●
Special ral	○	○	○	○	○
Prepainted fins S	●	●	●	●	●
Coil cathode treatment	●	●	●	●	●
Vibration dumper	●	●	●	●	●
EC fan (option THD < 5%)	●	●	●	●	●
EC versions with silencer					
Wiring	●	●	●	●	●
Wired plug&play adjustment systems					
Power switches for fans	●	●	●	●	●
Silencer AX	●	●	●	●	●
Fan speed controller	●	●	●	●	●
Drainable circuit	○	○	○	○	○
Grid coil protection	●	●	●	●	●
Vibration dampers and flanges					
Metal filter for coil	●	●	●	●	●
Adiabatic spray system	●	●	●	●	●
Adiabatic PAD system	●	●	●	●	●
Recirculation system for legionella-free PAD					
High-temperature motors					
Heat exchanger treatment resistant up to 6000 h in saline mist					
Connections					

● Optional ○ On request

OSTRO H

V-Type Double-Row Condenser

OSTRO is the new V-type condenser for high power refrigeration, air conditioning and industrial processes. OSTRO can be configured in 3 solutions: Dry, Spray and Pad.

In the Spray and Pad versions with water injection, the power increases are very significant and guarantee a legionnella-free solution. OSTRO can be used with a complete range of ventilations and refrigerants.

RANGE

Unit length	up to 12 m
4 fin spacing	1,8 - 2,1 - 2,4 - 3,6 mm
Fan size Ø	800 mm - 900 mm
Number of fans	4 ÷ 18

FLUIDS AVAILABLE

All synthetic refrigerants
CO_2 - gas cooler 130 bar
NH_3 - ammonia condenser

WARRANTY 3 YEAR WARRANTY

-15%

- 15% REFRIGERANT CHARGE COMPARED TO MARKET REFERENCE

180
models

From 210 to 2463 kW
DT 15K R404A capacity

Up to 6,5 kW/lt
R404A - Ø 910 mm - 6 poles DT15

1000 kW
R404A DT15 45 dB (A) 10 m AC motors

+20%
increased thickness high-efficiency louvered fins

PERFORMANCE

kW/lt and kW/W performance
at the top of the market.

Standard and Large versions
to optimize power density, absorption and noise, plus a very large range to choose from.

SOLIDITY

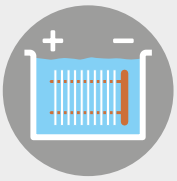
Increased thicknesses in the coil
without compromising on material quality.

Metal structure in pre-painted plate
for excellent solidity.

OSTRO H

V-Type Double-Row Condenser

Super silent versions
using EC motors and silencers.

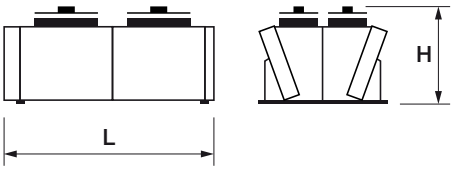


High corrosion resistance
with electrolytic coating treatments.

Versions with ADIABATIC operation
with non-organic PAD.

Excellent aeraulics
thanks to air flow separation baffles longitudinal and transverse.

CONFIGURATIONS



RANGE	MODELS	FANS		CAPACITY	POLES	H max	L max
	Nr.	Nr.	Ø mm	DT 15K	NR.	mm	mm
OSTRO H 80	21	4 ÷ 16	800	308 ÷ 1542,1 kW	6	2295	11626
OSTRO-L H 80	24	4 ÷ 18	800	307 ÷ 1742,8 kW	6	2646	11536
OSTRO H 90	63	4 ÷ 16	900	211,7 ÷ 2177 kW	4 - 6 - 12	2295	11626
OSTRO-L H 90	72	4 ÷ 18	900	211,5 ÷ 2463 kW	4 - 6 - 12	2646	11536

COIL
In OSTRO series units, the coil dedicated to heat exchange during cooling is of the latest generation and adopts a geometry (tube and row spacing) that optimizes the exchange capacity in absolute terms, specific to ventilation absorption.
The adoption of thick fins and the strong turbulence contribute to the remarkable heat exchange capacity of OSTRO units.
All coils undergo hydraulic testing at 16 bar.

STRUCTURE
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The adoption of transverse and longitudinal baffles optimizes the design by excluding possible interference between one ventilation and another.
OSTRO units also adopt the latest generation cowls and fans that guarantee silent operation and excellent machine performance, eliminating any possibility of recirculating spoiled air.

VENTILATION
The OSTRO series units are equipped with fans with the latest AC and EC technology that allow continuous speed control with motor management. The drive motor, fan blades and protective grid construction form an optimal ventilating unit with an external rotor. The drive motors are quiet and maintenance-free.
All fans are subject to balancing quality Q 6.3 according to VDI 2060.
The axial fans are easy to maintain with the thermal contacts integrated in the motor winding.

ACCESSORIES

ACCESSORIES	OSTRO H		OSTRO-L H	
	80	90	80	90
AISI 304 casing	○	○	○	○
Increased fin spacing	●	●	●	●
Special ral	○	○	○	○
Prepainted fins S	●	●	●	●
Coil cathode treatment	●	●	●	●
Coil filter				
Vibration dumper	●	●	●	●
EC fan motors	●	●	●	●
Wiring	●	●	●	●
Wired plug&play adjustment systems				
Power switches for fans	●	●	●	●
Silencer AX	●	●	●	●
Fan speed controller	●	●	●	●
Drainable circuit	○	○	○	○
Grid coil protection	○	○	○	○
Metal filter for coil	●	●	●	●
Adiabatic spray system	●	●	●	●
Adiabatic PAD system	●	●	●	●
Recirculation system for legionella-free PAD				
Integrated regulation system				
Heat exchanger treatment resistant up to 6000 h in saline mist				
Connections				

● Optional ○ On request

ADIABATIC SYSTEM

The adiabatic system for Ostro units humidifies the intake air without spraying water directly on the coil: the air is then cooled before entering the heat exchanger, leading to a significant increase in the performance of the device.
Metal or cellulose panels are installed in front of the coils, which initially absorb excess moisture and release it back into the air flowing through them.
This dual-effect system guarantees high humidification rates and good protection of the heat exchanger fins.
The recirculation system supplied reduces water consumption and significantly reduces the cost of water treatment, guaranteeing a very high level of hygiene at the start.

ADIABATIC PAD

CHARACTERISTICS

Reliability and high performance

- Complies with strict hygiene regulations VDI 6022
- Antimicrobial - anticorrosive
- Lasts the lifetime of the unit, so it is safe
- No puddles of water - No stagnation and recirculation of water
- Protects heat exchanger coil from corrosion
- High efficiency with low load losses on the air side
- Low water consumption per year with the same efficiency
- Designed to be self-cleaning
- Simple and fast installation > take off / put on
- Absence of spray - aerosol
- Anti-legionella smart water recirculating pump option
- Protective net against clogging with pollen and foliage

CONSUMPTION

Low water consumption

2 MW - Conditions Ambient T. 35°C - EG 35% DT 10°C

AT MAXIMUM EXCHANGE CAPACITY

- 3.8 m3/hour without recirculation
- 1.9 m3/hour with recirculation
- 18 X 900 6 POLE 34 kW consumption 1.7%
- 58 db(A) 10 m

AT 50% EXCHANGE CAPACITY

- 1.7 m3/hour without recirculation
- 0.9 m3/hour with recirculation
- 5 kW consumption that is 0.5%
- 37 db(A) 10 m

SETTING

Simple system setting

Settings:

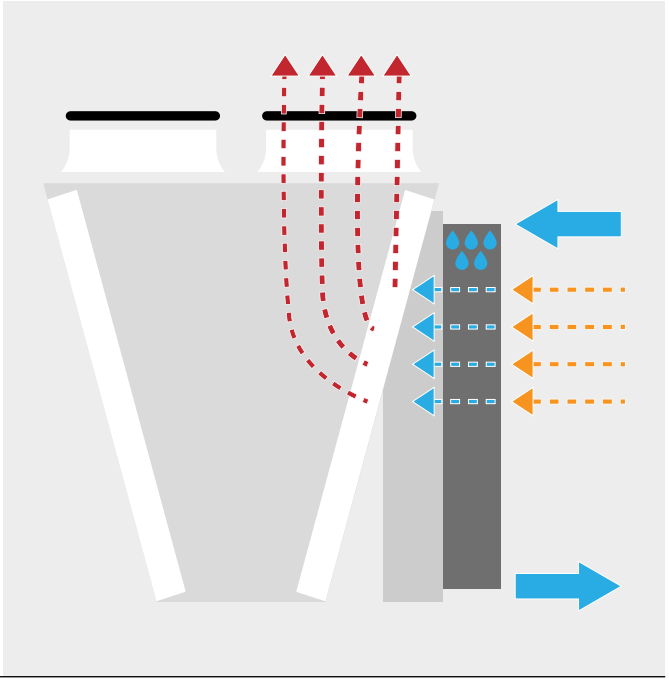
- fluid outlet temperature
- dry/wet switching temperature

Adjustment logic:

- water injection in PAD with impulses (T, RH, rpm, P)
- adjustment 0 - 10 Vdc EC fans

Calculation parameters:

- unit dimensions
- R.H. %
- ambient temperature
- air flow
- atmospheric pressure



Example of application of the ADIABATIC PAD on OSTRO L90 6p

Improvements of system performances
On the following conditions: Ambient T.35°C - E.G.35% DT10°

- **Condensation reduced** by 7°C from ΔT1 10°C to ΔT1 3°C.
- **Chiller off for 2 more months in the year:** FREE COOLING starts from Ambient T. 8°C instead of 5°C.

Improvements of unit performances
On the following conditions: Ambient T.35°C - E.G.35% DT10°

- **100% increase of exchange capacity:** 18 x 900 6P - from 1 MW to 2 MW - 58 dB(A) 10m

or

- **Reduced capacity consumption** [on the same unit with EC motors + silencer]: minus 85% and minus 21dB(A).

or

- **Space Saving ~ 55% and Money Saving ~15%:** unit with 18 to 8 fans.

ZONDA W

V-Type Single-Row Dry Cooler

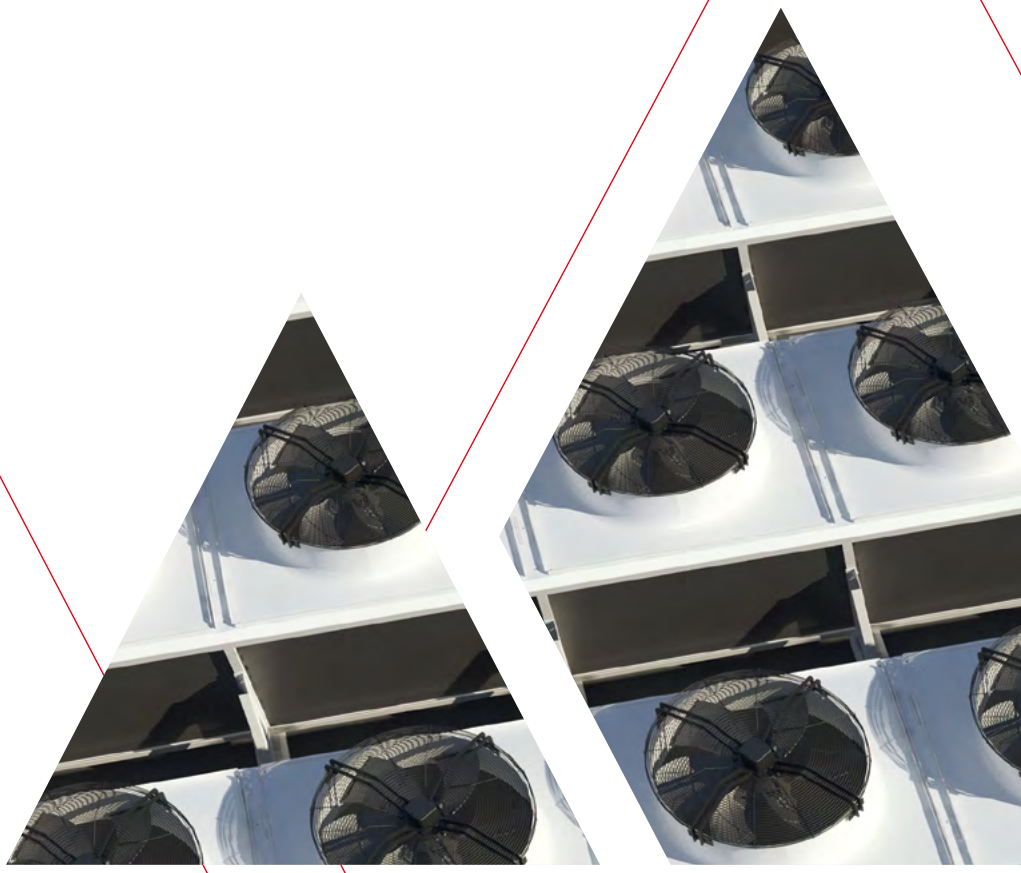
ZONDA is the new V-type single-row dry cooler allow heat exchange designed for limited space availability or visibility on the roofs.

RANGE

Unit length	1,5 ÷ 10,3 m
Fin spacing range	1,8 up to 3,6 mm
Fan size Ø	630 mm - 800 mm - 900 mm
DT 15K Capacity	20 ÷ 800 kW
Number of fans	1 ÷ 8

FLUIDS AVAILABLE

Water
Glycol
Liquids on specific feature



WARRANTY 3 YEAR WARRANTY

800 kW

UP TO 800 kW IN ONLY 1.2 m HEIGHT (EG35% DT15K)

206 models
in 3 configuration

Up to 560 kW
with only 45 dB(A) 10 m EG35% DT15K EC

From 20 to 800 kW
DT 15K Capacity

Up to 1100 kW/m²
DT15 EG 35%. High capacity per foot print

+12%
increased thickness high-efficiency rippled tube

+20%
increased thickness high-efficiency louvered fins

PERFORMANCE

Performance kW/m² of footprint
at the top of the market.

Three versions: small, standard, large
for various space requirements.

Adiabatic solution
to increase performances.

SOLIDITY

Increased thicknesses in the coil
without compromising on material quality.

Metal structure in pre-painted plate 15/10
for excellent solidity.

Connection protected
thanks to header protection pannels.

2,4 m

Optimised transport
with machines always sitting side by side.

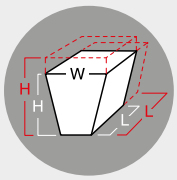
ZONDA W

V-Type Single-Row Dry Cooler

High nozzles
for maximum efficiency.

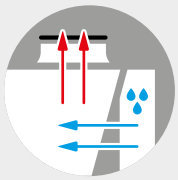
Solid structure
with casing and heading protections.

Low noise
To reduce noise levels we offer two silencer versions.



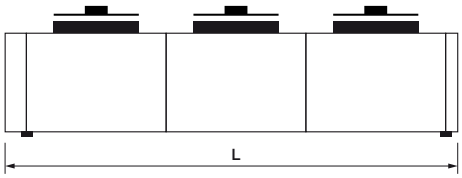
Three possible configurations

W **1,2** x L **1,5** x H **1,2**
W **1,2** x L **1,5** x H **1,5**
W **1,2** x L **1,7** x H **1,2**



Versions with ADIABATIC operation
with non-organic PAD.

CONFIGURATIONS



RANGE	MODELS	FANS		CAPACITY	POLES	H max	L max
	Nr.	Nr.	Ø mm	DT 15K	NR.	mm	mm
ZONDA-S W 63	36	1 ÷ 6	630	15 ÷ 342,7 kW	4 - 6	1223	7773
ZONDA-S W 80	18	1 ÷ 6	800	17,9 ÷ 397 kW	6	1223	7773
ZONDA-L W 80	24	1 ÷ 8	800	22,6 ÷ 597 kW	6	1550	10273
ZONDA W 90	64	1 ÷ 8	900	20 ÷ 779 kW	4 - 6 - 12	1223	11633
ZONDA-L W 90	64	1 ÷ 8	900	19 ÷ 798 kW	4 - 6 - 12	1550	10273

ACCESSORIES

ACCESSORIES	ZONDA-S W		ZONDA-L W		ZONDA W
	63	80	80	90	90
AISI 304 casing	○	○	○	○	○
Increased fin spacing	●	●	●	●	●
Special ral	○	○	○	○	○
Prepainted fins S	●	●	●	●	●
Coil cathode treatment	●	●	●	●	●
Vibration dumper	●	●	●	●	●
EC fan	●	●	●	●	●
Wiring	●	●	●	●	●
Power switches for fans	●	●	●	●	●
Silencer AX		●	●	●	
Fan speed controller	●	●	●	●	●
Drainable circuit		○	○	○	○
Grid coil protection	○	○	○	○	○
Metal filter for coil	○	○	○	○	○
Adiabatic spray system	○	○	○	○	○
Adiabatic PAD system	○	○	○	○	○
Corrosion treatment for coil resistant up to 6000 h in salt fog					
Connections					

● Optional ○ On request

ZONDA H

V-Type Single-Row Condenser

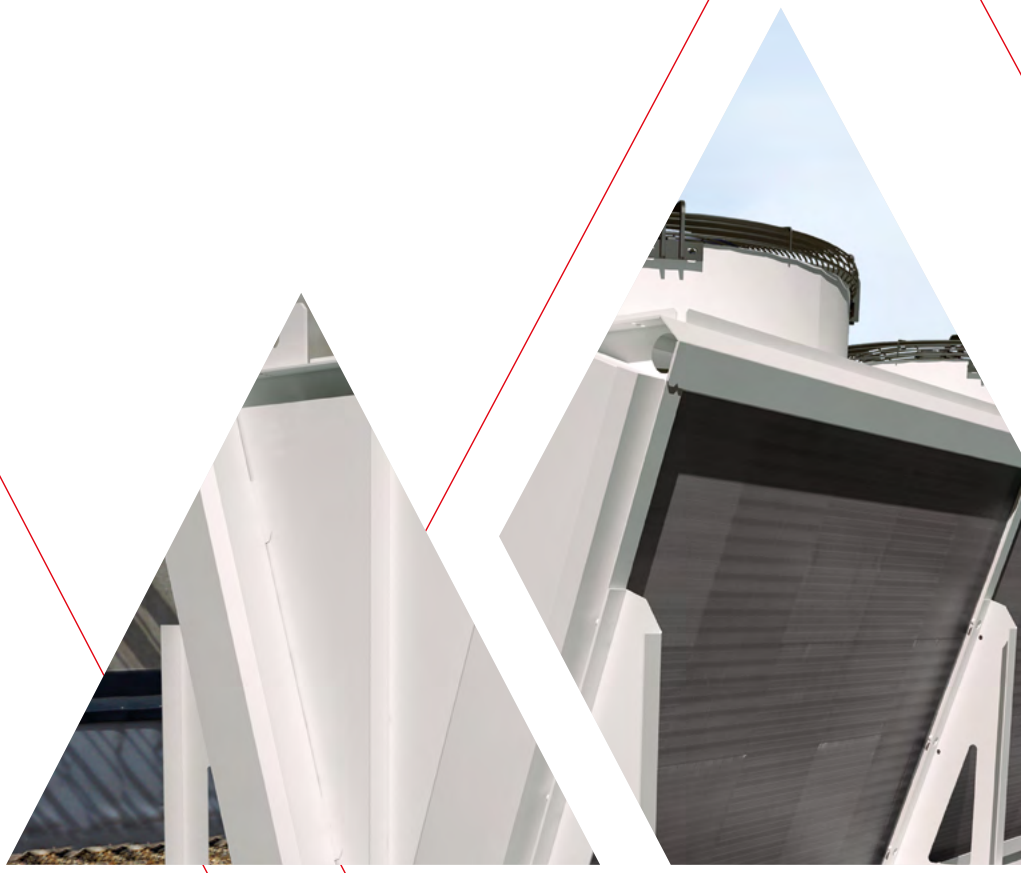
ZONDA is the V-type condenser allow heat exchange designed for environments where dimensional restraints are important or visibility on the roofs is limited.

RANGE

Unit length	1,5 ÷ 11,6 m
4 fin spacing	1,8 - 2,1 - 2,4 - 3,6 mm
Fan size Ø	630 mm - 800 mm - 900 mm
DT 15K Capacity	23 ÷ 1180 kW
Number of fans	1 ÷ 8

FLUIDS AVAILABLE

All synthetic refrigerants
CO2 - gas cooler 120 bar
NH3 - ammonia condenser



62 kW/m²

62 kW/m² CAPACITY FOR SPECIFIC FOOT PRINT CONDENSATION DT15 - 900 6P

206
models

From 50 to 80%
capacity increases at the same foot print vs table-type

From 20 to 1200 kW
DT 15K Capacity

Up to 1100 kW
with machines 1,2 m high

+12%
increased thickness high-efficiency rippled tube

+20%
increased thickness high-efficiency louvered fins

PERFORMANCE

Performance kW/m² of footprint
at the top of the market.

Three versions: small, standard, large
for various space requirements.

Adiabatic solution
to increase performances.

SOLIDITY

Increased thicknesses in the coil
without compromising on material quality.

Metal structure in pre-painted plate 15/10
for excellent solidity.

Connection protected
thanks to header protection pannels.

Optimised transport
with machines always sitting side by side.

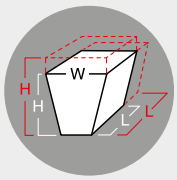
ZONDA H

V-Type Single-Row Condenser

High nozzles
for maximum efficiency.

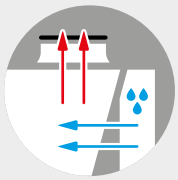
Solid structure
with casing and heading protections.

Low noise
To reduce noise levels we offer two silencer versions.



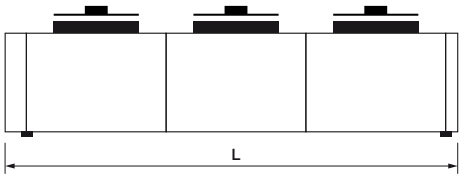
Three possible configurations

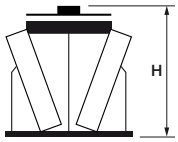
W **1,2** x L **1,5** x H **1,2**
W **1,2** x L **1,5** x H **1,5**
W **1,2** x L **1,7** x H **1,2**



Versions with ADIABATIC operation
with non-organic PAD.

CONFIGURATIONS





RANGE	MODELS	FANS		CAPACITY	POLES	H max	L max
	Nr.	Nr.	Ø mm	DT 15K	NR.	mm	mm
ZONDA-S H 63	36	1 ÷ 6	630	44 ÷ 441 kW	4 - 6	1223	7773
ZONDA-S H 80	18	1 ÷ 6	800	70 ÷ 530 kW	6	1223	7773
ZONDA-L H 80	24	1 ÷ 8	800	79 ÷ 788 kW	6	1550	10273
ZONDA H 90	64	1 ÷ 8	900	51 ÷ 1050 kW	4 - 6 - 12	1223	11633
ZONDA-L H 90	64	1 ÷ 8	900	54 ÷ 1120 kW	4 - 6 - 12	1550	10273

ACCESSORIES

ACCESSORIES	ZONDA-S H		ZONDA-L H		ZONDA H
	63	80	80	90	90
AISI 304 casing	○	○	○	○	○
Increased fin spacing	●	●	●	●	●
Special ral	○	○	○	○	○
Prepainted fins S	●	●	●	●	●
Coil cathode treatment	●	●	●	●	●
Vibration dumper	●	●	●	●	●
EC fan	●	●	●	●	●
Wiring	●	●	●	●	●
Power switches for fans	●	●	●	●	●
Silencer AX		●	●	●	●
Fan speed controller	●	●	●	●	●
Drainable circuit		○	○	○	○
Grid coil protection	○	○	○	○	○
Metal filter for coil	○	○	○	○	○
Adiabatic spray system		○	○	○	○
Adiabatic PAD system		○	○	○	○
Corrosion treatment for coil resistant up to 6000 h in salt fog					
Connections					

● Optional ○ On request

SCIROCCO W

Table-Type Dry Cooler

SCIROCCO is the table-type dry cooler for refrigeration, conditioning and industrial process applications.

RANGE

Unit length	0,8 ÷ 12,5 m
Fin spacing range	1,8 up to 3,6 mm
Fan size Ø	350 mm - 500 mm - 630 mm 800 mm - 900 mm
DT15°C EG 35% capacity	5 ÷ 1100 kW
Number of fans	1 ÷ 12

FLUIDS AVAILABLE

Water
Glycol
Liquids on specific feature

WARRANTY 3 YEAR WARRANTY

0.6%

0.6 % W/kW ENERGY CONSUMPTION RATIO

332
models

From 10 to 1100 kW
DT 15K Capacity EG 35%

Up to 38 kW/mq foot print
EG 35% DT1 15°C

+12%
increased thickness high-efficiency rippled tube

+20%
increased thickness high-efficiency louvered fins

PERFORMANCE

kW/lt and kW/W performance
at the top of the market.

Versions with Standard, L and XL module
to optimize power density, absorption and noise, plus a very large range to choose from.

SOLIDITY

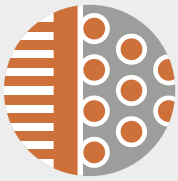
Increased thicknesses in the coil
without compromising on material quality.

Metal structure in painted plate, thickness 1,5 mm
for excellent solidity.

SCIROCCO W

Table-Type Dry Cooler

Fan shroud and plenum
For high exchange efficiency.



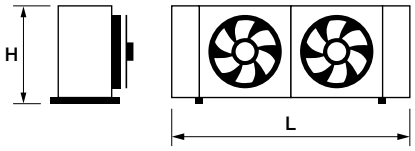
Contact Free™
For maximum reliability against leaks.

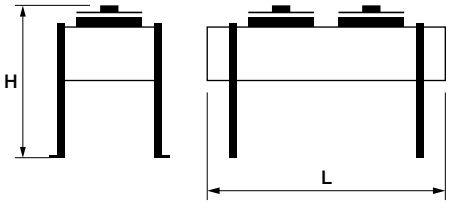
Silencers
We offer silencers to reduce noise levels, also in plus version.

OPTIONAL

Hinged fan shroud
Getting access for cleaning is easier than you think.

CONFIGURATIONS





RANGE	MODELS	FANS		CAPACITY	POLES	VERTICAL AIR FLOW		HORIZONTAL AIR FLOW	
	Nr.	Nr.	Ø mm	DT 15K	NR.	H MAX mm	L MAX mm	H MAX mm	L MAX mm
SCIROCCO W 35	30	1 ÷ 6	350	5 - 54 kW	4 - 6	784	1923	1036	1923
SCIROCCO W 50	21	1 ÷ 8	500	6 ÷ 168 kW	4	1117	3720	1546	3720
SCIROCCO W 63	63	1 ÷ 8	630	13,1 ÷ 353 kW	4 - 6 - 12	1316	4320	2036	4320
SCIROCCO-L W 63	51	1 ÷ 8	630	15,1 ÷ 397 kW	4 - 6 - 12	1316	5320	2036	5320
SCIROCCO W 80	24	1 ÷ 16	800	51,6 ÷ 944,0 kW	6	1776	11894	2316	11894
SCIROCCO-L W 80	20	1 ÷ 12	800	63,1 ÷ 850 kW	6	1776	12234	2316	12234
SCIROCCO-L W 90	60	1 ÷ 12	910	36 ÷ 1108 kW	4 - 6 - 12	1776	12234	2316	12334
SCIROCCO-XL W 90	63	1 ÷ 10	910	17 ÷ 944 kW	4 - 6 - 12	1552	12234	2316	12334

ACCESSORIES

ACCESSORIES	SCIROCCO W				SCIROCCO-L W			SCIROCCO-XL W
	35	50	63	80	63	80	90	90
AISI 304 casing	○	○	○	○	○	○	○	○
Increased fin spacing	●	●	●	●	●	●	●	●
Special ral	○	○	○	○	○	○	○	○
Prepainted fins S	●	●	●	●	●	●	●	●
Coil cathode treatment	●	●	●	●	●	●	●	●
Vibration dumper	●	●	●	●	●	●	●	●
EC fan motors	●	●	●	●	●	●	●	●
Wiring	●	●	●	●	●	●	●	●
Power switches for fans	●	●	●	●	●	●	●	●
Silencer AX				●		●	●	●
Fan speed controller	●	●	●	●	●	●	●	●
Drainable circuit				○		○	○	○
Special feet height	●	●	●	●	●	●	●	●
Coil easy access				●		●	●	●
Heat exchanger treatment resistant up to 6000 h in saline mist								
Connections								

● Optional ○ On request

SCIROCCO H

Table-Type Condenser

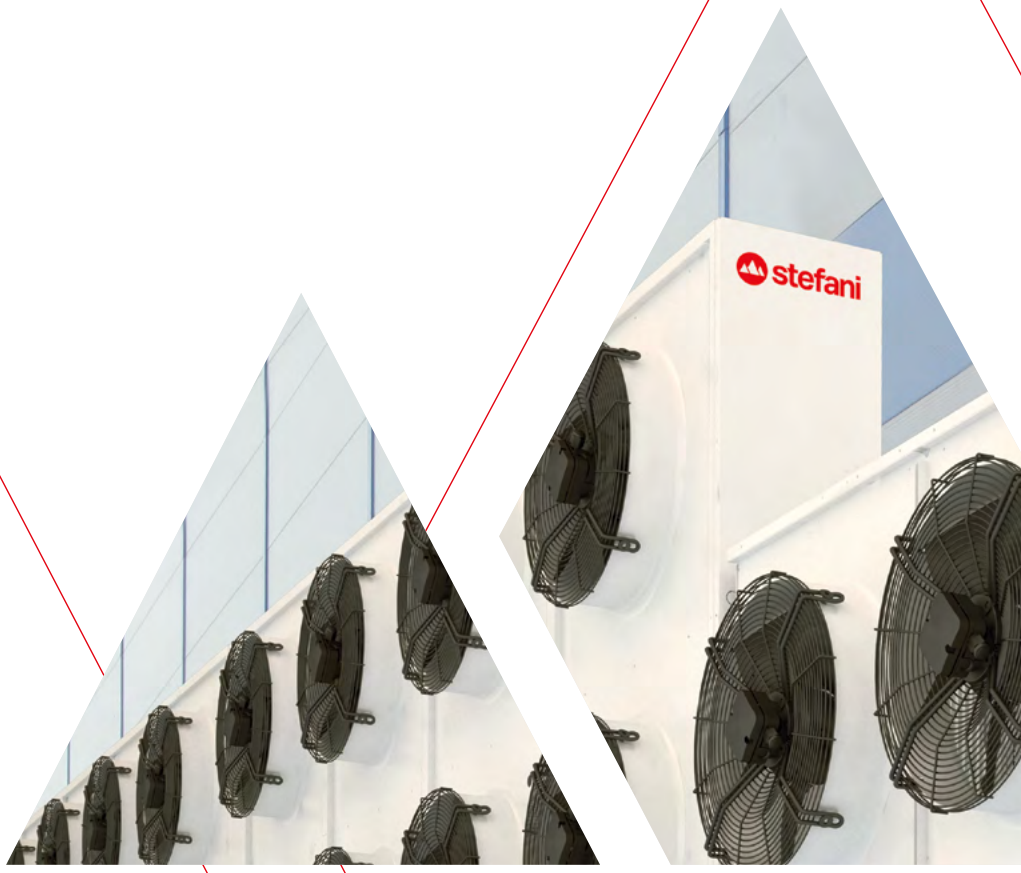
SCIROCCO is the table-type condenser for refrigeration, conditioning and industrial process applications.

RANGE

Unit length	0,5 ÷ 12,5 m
4 fin spacing	1,8 - 2,1 - 2,4 - 3,6 mm
Fan size Ø	350 mm - 500 mm - 630 mm 800 mm - 900 mm
DT15K capacity	5 ÷ 1.430 kW
Number of fans	1 ÷ 12

FLUIDS AVAILABLE

All synthetic refrigerants
CO_2 - gas cooler 120 bar
NH_3 - ammonia condenser



WARRANTY 3 YEAR WARRANTY

-15%

- 15% REFRIGERANT CHARGE COMPARED TO MARKET REFERENCE

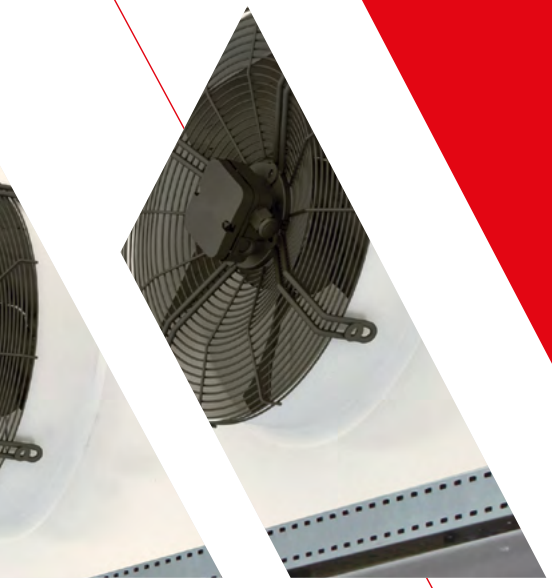
307
models

From 5 to 1400 kW
DT 15K Capacity

Up to 6 kW/lt
R404A - DT1 15°C Ø 630/910 - 8 poles

+12%
increased thickness high-efficiency rippled tube

+20%
increased thickness high-efficiency louvered fins



PERFORMANCE

kW/lt and kW/W performance
at the top of the market.

Versions with Standard, L and XL module
to optimize power density, absorption and noise, plus a very large range to choose from.

SOLIDITY

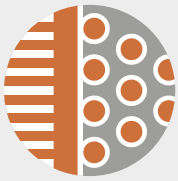
Increased thicknesses in the coil
without compromising on material quality.

Metal structure in painted plate, thickness 1,5 mm
for excellent solidity.

SCIROCCO H

Table-Type Condenser

Fan shroud and plenum
For high exchange efficiency.



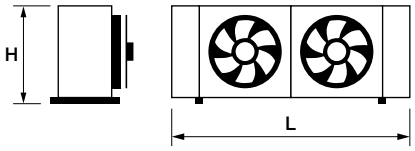
Contact Free™
For maximum reliability against leaks.

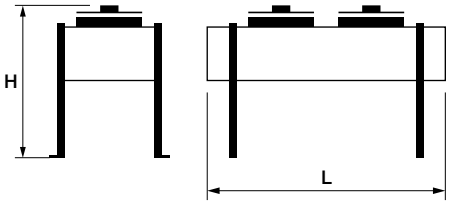
Silencers
We offer silencers to reduce noise levels, also in plus version.

OPTIONAL

Hinged fan shroud
Getting access for cleaning is easier than you think.

CONFIGURATIONS





RANGE	MODELS	FANS		CAPACITY	POLES	VERTICAL VERSION		HORIZONTAL VERSION	
	Nr.	Nr.	Ø mm	DT 15K	NR.	H MAX mm	L MAX mm	H MAX mm	L MAX mm
SCIROCCO H 35	20	1 ÷ 6	350	5 ÷ 60 kW	4 - 6	784	1923	1036	1923
SCIROCCO H 50	21	1 ÷ 8	500	22 ÷ 250 kW	4	1117	3720	1546	3720
SCIROCCO H 63	63	1 ÷ 8	630	18 ÷ 460 kW	4 - 6 - 12	1316	4320	2036	4320
SCIROCCO-L H 63	45	1 ÷ 6	630	19 ÷ 382 kW	4 - 6 - 12	1316	4070	2036	4070
SCIROCCO H 80	24	1 ÷ 16	800	70 ÷ 1224 kW	6	1776	11894	2316	11894
SCIROCCO-L H 80	20	1 ÷ 12	800	83 ÷ 1062 kW	6	1776	12234	2316	12234
SCIROCCO-L H 90	60	1 ÷ 12	900	48 ÷ 1445 kW	4 - 6 - 12	1776	12234	2316	12234
SCIROCCO-XL H 90	54	1 ÷ 10	900	52 ÷ 1314 kW	4 - 6 - 12	1776	12234	2316	12234

ACCESSORIES

ACCESSORIES	SCIROCCO H				SCIROCCO-L H			SCIROCCO-XL H
	35	50	63	80	63	80	90	90
AISI 304 casing	○	○	○	○	○	○	○	○
Increased fin spacing	●	●	●	●	●	●	●	●
Special ral	○	○	○	○	○	○	○	○
Prepainted fins S	●	●	●	●	●	●	●	●
Coil cathode treatment	●	●	●	●	●	●	●	●
Vibration dumper	●	●	●	●	●	●	●	●
EC fan motors	●	●	●	●	●	●	●	●
Wiring	●	●	●	●	●	●	●	●
Power switches for fans	●	●	●	●	●	●	●	●
Silencer AX				●		●	●	●
Fan speed controller	●	●	●	●	●	●	●	●
Drainable circuit				○		○	○	○
Special feet height	●	●	●	●	●	●	●	●
Coil easy access				●		●	●	●
Heat exchanger treatment resistant up to 6000 h in saline mist								
Connections								

● Optional ○ On request

GRECALE H

Industrial Cubic Air Cooler

GRECALE was created with various types of industrial refrigeration applications in mind.
Thanks to a very wide range, GRECALE meets the needs of installers who need the maximum technical and economic competitiveness.

The new series has uncompromising structural quality and a high-performance exchange core, it is rich in configurations and accessories and has been optimised to increase space for goods in the cold store.

For consumption efficiency, the version with hot gas and water defrosting is available, even for low temperature cold stores.

RANGE

Unit length	up to 8,3 m
Unit height	909 - 1748 mm
5 fin spacing	4 - 6 - 8 - 10 - 12 mm
Fan size Ø	500 mm – 560 mm – 630 mm - 710 mm low 710 mm high – 800 mm - 910 mm
Number of fans	1 ÷ 7
Fin material	Al, Al-Mg, prepainted Al, cataphoresis

FLUIDS AVAILABLE

All synthetic refrigerants
Direct expansion and pumped CO_2
Pumped NH_3
Glycol - Brine

GRECALE LARGE VERSION

Large exchange fin surface.
Possibility of reducing the defrosting intervals.
The optimal solution in combination with stainless steel versions.

GRECALE-T COMPACT

An extremely competitive technical-economic solution.
Compact unit for optimising transport and dimensions in the cold store.
Extension of solutions in the capacity ranges.

WARRANTY 3 YEAR WARRANTY

760

760 PHYSICAL MODELS UNMATCHED RANGE

Capacity 11 - 270 kW
SC2 fin spacing 6 mm

Up to 8,28 m
unit length

From 909 cm
unit height

Up to 2.793 m²
Large exchange areas with fin spacing 4 mm

Up to 100 m air throw
Large plenums and high nozzles

PERFORMANCE

Minimum consumptions up to 45 W/kW
SC2 fin spacing 6 mm.

Air flow rate for all applications
between 400 and 650 (m²/h) / kW (SC2).

Reduced dimensions in cold store
units with compact height.

GRECALE-T
compact coil version designed for cost optimized.

SOLIDITY

Drip tray with metal discharge
with high drainage.

Double hinged basin and removable internal drip tray
for maximum cleaning and guarantee against condensate.

Painted structure in 15/10 sheet metal
for excellent strength.

Connections always on the same side
up to 6 m units.

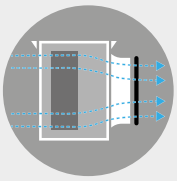
Large technical spaces
to work easy.

GRECALE H

Industrial Cubic Air Cooler

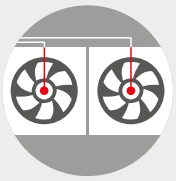
Hinged structure
for easy access to the whole unit.

High efficiency ventilation
with metal blades.



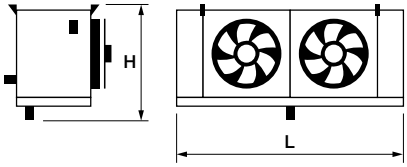
Units optimised for the best aeraulic flow
and overall dimensions in the cold store.

EC fan technolgy
to increase significantly energy saving.



Electric wiring
EC electric wiring

CONFIGURATIONS



RANGE	MODELS	FANS		CAPACITY	FIN SPACING	H max	L max	DEFROST		
	Nr.	Nr.	Ø mm	DT 8K	mm	mm	mm	STANDARD ELECTRIC	HOT GAS	WATER
GRECALE-T H 56	36	1 ÷ 4	560	13,4 ÷ 94,2 kW	4 - 6 - 8	1123	4247	○	○	○
GRECALE-T H 63	36	1 ÷ 4	630	18,7 ÷ 135,7 kW	4 - 6 - 8	1123	5527	○	○	○
GRECALE-T H 70	36	1 ÷ 4	700	21,7 ÷ 154,8 kW	4 - 6 - 8	1223	5527	○	○	○
GRECALE-T H 71	36	1 ÷ 4	710	26,6 ÷ 195,4 kW	4 - 6 - 8	1523	5527	○	○	○
GRECALE-T H 80	36	1 ÷ 4	800	25,2 ÷ 174,1 kW	4 - 6 - 8	1523	5527	○	○	○
GRECALE H 50	105	1 ÷ 7	500	7,7 ÷ 102,7 kW	4 - 6 - 8 - 10 - 12	933	6887	○	○	○
GRECALE H 56	105	1 ÷ 7	560	10,2 ÷ 135,7 kW	4 - 6 - 8 - 10 - 12	1133	6887	○	○	○
GRECALE H 63	70	1 ÷ 5	630	14,3 ÷ 129,6 kW	4 - 6 - 8 - 10 - 12	1133	6727	○	○	○
GRECALE H 70	75	1 ÷ 5	700	16,5 ÷ 159,9 kW	4 - 6 - 8 - 10 - 12	1233	6727	○	○	○
GRECALE H 71	75	1 ÷ 5	710	20,3 ÷ 205,7 kW	4 - 6 - 8 - 10 - 12	1548	6727	○	○	○
GRECALE H 80	75	1 ÷ 5	800	19,4 ÷ 181,4 kW	4 - 6 - 8 - 10 - 12	1548	6727	○	○	○
GRECALE H 91	75	1 ÷ 5	910	28,9 ÷ 293 kW	4 - 6 - 8 - 10 - 12	1748	8227	○	○	○

ACCESSORIES

ACCESSORIES	GRECALE-T H					GRECALE H						
	56	63	70	71	80	50	56	63	70	71	80	91
AISI 304 casing	○	○	○	○	○	○	○	○	○	○	○	○
AISI 304 tubes	○	○	○	○	○	○	○	○	○	○	○	○
AISI 304 drip tray	○	○	○	○	○	○	○	○	○	○	○	○
Fan switch	○	○	○	○	○	○	○	○	○	○	○	○
Insutated double drip tray	○	○	○	○	○	○	○	○	○	○	○	○
Fan textile damper												
Flow deflector	○	○	○	○	○	○	○	○	○	○	○	○
Blowing fan configuration		○	○	○	○	○		○	○	○	○	○
Electric wiring	○	○	○	○	○	○	○	○	○	○	○	○
EC electric wiring	○	○	○	○	○	○	○	○	○	○	○	○
EC fans	○	○	○	○	○	○	○	○	○	○	○	○
Post heating	○	○	○	○	○	○	○	○	○	○	○	○
Pre painted fins	○	○	○	○	○	○	○	○	○	○	○	○
Coil cathode treatment	○	○	○	○	○	○	○	○	○	○	○	○
Easy access	●	●	●	●	●	●	●	●	●	●	●	●
Air socks	○	○	○	○	○	○	○	○	○	○	○	○
Gravity coil suction damper	○	○	○	○	○	○	○	○	○	○	○	○
Kit legs	○	○	○	○	○	○	○	○	○	○	○	○
Fan ring heaters	○	○	○	○	○	○	○	○	○	○	○	○
Drain heaters	○	○	○	○	○	○	○	○	○	○	○	○
Drip tray electric defrost	○	○	○	○	○	○	○	○	○	○	○	○
Water defrosting	○	○	○	○	○	○	○	○	○	○	○	○
Air trow cowl	○	○	○	○	○	○	○	○	○	○	○	○
Connections												

● Standard ○ Optional

ZEFIRO H

Dual Discharge Air Cooler

ZEFIRO is the dual discharge air cooler for refrigeration applications, especially for processing rooms or environments that require a double flow of air.

RANGE

Unit height (slim)	266 ÷ 580 mm (depending on fans)
3 fin spacing	3 - 4,5 - 7 mm
Fan size Ø	250 mm – 315 mm – 350 mm - 450 mm 630 mm
Number of fans	1 ÷ 5
DT 8K Capacity	1 ÷ 149 kW

FLUIDS AVAILABLE

All synthetic refrigerants
Direct expansion and pumped CO_2
Glycol - Brine

WARRANTY 3 YEAR WARRANTY

-10%

-10% REFRIGERANT CHARGE COMPARED TO MARKET REFERENCE

186
models

459
versions

From 1 to 149 kW
DT 8K Capacity

Up to 2 kW/lt
SC2 fin spacing 4,5 mm

+8%
increased thickness high-efficiency rippled tube

+20%
increased thickness high-efficiency louvered fins

PERFORMANCE

kW/lt and kW/W performance
at the top of the market.

Optimized plenum
to optimize the air fluid dynamic efficiency.

Comfortable working conditions
thanks to low speed fans.

SOLIDITY

Increased thicknesses in the coil
without compromising on material quality.

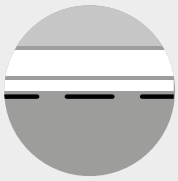
Pre-painted aluminium 15/10 metal casing
for excellent solidity.

Great accessibility
with internal inner drain tray sized for efficient drainag.

ZEFIRO H

Dual Discharge Air Cooler

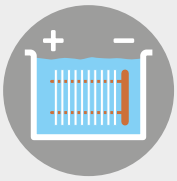
Reliability
with increased thicknesses and aluminum endplates.



Cooler for processing room
fitted to the ceiling design.

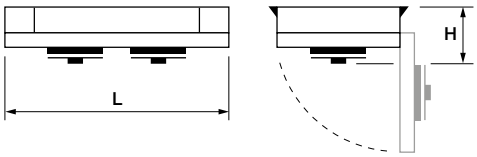
Aluminum casing and drain connections
for high solidity.

Machine easy to sanitise
thanks to hinged casing.



Maximum corrosion resistance with cataphoresis.

CONFIGURATIONS



RANGE	MODELS	FANS		CAPACITY	POLES	FIN SPACING	H max	L max	DEFROST		
	Nr.	Nr.	Ø mm	DT 8K		mm	mm	mm	STANDARD ELECTRIC	HOT GAS	WATER
ZEFIRO H 25	12	1 ÷ 4	250	1 ÷ 5,8 kW	4	3 - 4,5 - 7	266	1532	o		
ZEFIRO H 31	24	1 ÷ 4	315	1,8 ÷ 14 kW	4	3 - 4,5 - 7	343	2292	o		
ZEFIRO H 35	24	1 ÷ 4	350	2 ÷ 19,6 kW	4 - 6	3 - 4,5 - 7	350	2695	o		
ZEFIRO H 45	36	1 ÷ 4	450	6,7 ÷ 57,3 kW	4 - 6	3 - 4,5 - 7	518	4120	o		
ZEFIRO H 62	45	1 ÷ 5	620	10,9 ÷ 140,3 kW	4 - 6	3 - 4,5 - 7	580	6600	o		
ZEFIRO H 63	45	1 ÷ 5	630	12,3 ÷ 148,8 kW	4 - 6	3 - 4,5 - 7	580	6600	o		

ACCESSORIES

ACCESSORIES	ZEFIRO H					
	25	31	35	45	62	63
EC fan	○	○	○	○	○	○
Electric wiring	●	●	●	○	○	○
AISI 304 casing	○	○	○	○	○	○
Insutated double drip tray		○	○	○	○	○
Post heating		○	○	○	○	○
Coil cathode treatment	○	○	○	○	○	○
Cataphoresis coil treatment	○	○	○	○	○	○
Pre painted fins	○	○	○	○	○	○
Easy access	●	●	●	●	●	●
AISI 604 tubes	○	○	○	○	○	○
Drain Heater	○	○	○	○	○	○
Drip Tray Heater					○	○
Fan Ring Heater					○	○

● Standard ○ Optional

BOREA H

Commercial Cubic Air Cooler

BOREA is the first project developed according to Stefani's new philosophy.

The company redesigned its heat exchangers to obtain maximum efficiency and thermodynamic performance. There are 220 models and plenty of accessories in the range, including water defrosting for the largest commercial sizes.

RANGE

Unit length	675 ÷ 4000 mm
5 fin spacing	4 - 5,5 - 6,5 - 7,5 - 9 mm
Fan size Ø	250 mm – 315 mm – 350 mm - 450 mm 500 mm
Number of fans	1 ÷ 4
DT 8K Capacity	1 ÷ 70 kW

FLUIDS AVAILABLE

All synthetic refrigerants
Direct expansion and pumped CO_2
Glycol - Brine

WARRANTY 3 YEAR WARRANTY

+5%

+5% VARIATION IN YIELD MEASURED AT TÜV

220
models

660
versions

From 1 to 70 kW
DT 8K Capacity

Up to 1,9 kW/lt
SC2 fin spacing 5,5 mm

+8%
increased thickness high-efficiency rippled tube

+20%
increased thickness high-efficiency louvered fins

PERFORMANCE

kW/lt and kW/W performance
at the top of the market.

On average 120 Watt/m² of defrosting power
fin spacing 5.5 mm.

SOLIDITY

Increased thicknesses in the coil
without compromising on material quality.

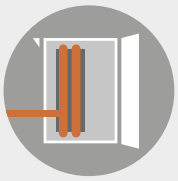
Hinged basin for maximum cleanliness and protection from condensation.

Prepainted aluminum casing
and use of stainless steel hardware.

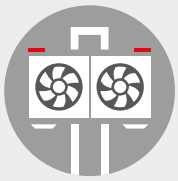
Wide technical compartment
easily accessible for an easy job.

BOREA H

Commercial Cubic Air Cooler



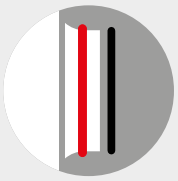
Length of connections suitable for easy welding.



Easy installation with slots and product already packaged in position.

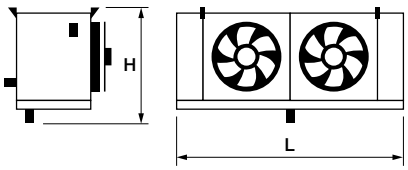
Metal discharge for maximum reliability.

Hinged structural work for easy access to the entire machine.



Nozzle resistance low temperature nozzle defrosting

CONFIGURATIONS



RANGE	PHASES	MODELS	FANS		CAPACITY	FIN SPACING	H max	L max	DEFROST		
		Nr.	Nr.	Ø mm	DT 8K	mm	mm	mm	STANDARD ELECTRIC	HOT GAS	WATER
BOREA H 25		40	1 ÷ 4	250	0,8 ÷ 6,2 kW	4 - 5,5 - 6,5 - 7,5 - 9	403	1575	○	○	
BOREA H 31		40	1 ÷ 4	315	1,8 ÷ 13,5 kW	4 - 5,5 - 6,5 - 7,5 - 9	471	2014	○	○	
BOREA H 35		40	1 ÷ 4	350	2,5 ÷ 20 kW	4 - 5,5 - 6,5 - 7,5 - 9	564	2335	○	○	
BOREA H 44	1	40	1 ÷ 4	450	4,4 ÷ 33 kW	4 - 5,5 - 6,5 - 7,5 - 9	750	2710	○	○	
BOREA H 44	3	40	1 ÷ 4	450	4,5 ÷ 33,1 kW	4 - 5,5 - 6,5 - 7,5 - 9	750	2710	○	○	
BOREA H 50	1	60	1 ÷ 4	500	6,7 ÷ 62,3 kW	4 - 5,5 - 6,5 - 7,5 - 9	808	4021	○	○	○
BOREA H 50	3	60	1 ÷ 4	500	6,9 ÷ 64,4 kW	4 - 5,5 - 6,5 - 7,5 - 9	808	4021	○	○	○

ACCESSORIES

ACCESSORIES	BOREA H				
	25	31	35	44	50
AISI 304 casing	○	○	○	○	○
Fan ring heaters		○	○	○	○
Drain heaters	○	○	○	○	○
Post heating		○	○	○	○
Pre painted fins	○	○	○	○	○
Coil cathode treatment	○	○	○	○	○
Cataphoresis coil treatment	○	○	○	○	○
AISI 304 casing	○	○	○	○	○
Insutated double drip tray	○	○	○	○	○
Easy access			●	●	●
EC fans	○	○	○	○	○
Electric wiring	●	●	●	○	○
Air streamer			○	○	○
Air socks				○	○
Switch off for each fan					○
Defrost textile damper Drip			○	○	○
Tray Heater	○	○	○	○	○

● Standard ○ Optional

BREEZE H

Angled Air Cooler

BREEZE is the angled air cooler for commercial refrigeration, in particular for small cold rooms.

RANGE

Unit length	2060 mm
3 fin spacing	3 - 4,5 - 7 mm
Fan size Ø	250 mm – 315 mm
Number of fans	1 ÷ 3
DT 8K Capacity	0,8 ÷ 9,3 kW

FLUIDS AVAILABLE

All synthetic refrigerants
Direct expansion and pumped CO_2
Glycol - Brine

WARRANTY 3 YEAR WARRANTY

-10%

-10% REFRIGERANT CHARGE COMPARED TO MARKET REFERENCE

18
models

54
versions

From 0,8 to 10 kW
DT 8K Capacity

Up to 2 kW/lt
SC2 fin spacing 4,5 mm

+8%
increased thickness high-efficiency rippled tube

+20%
increased thickness high-efficiency louvered fins

PERFORMANCE

kW/lt and kW/W performance
at the top of the market.

SOLIDITY

Increased thicknesses in the coil
without compromising on material quality.

Metal structure in pre-painted plate 15/10
for excellent solidity.

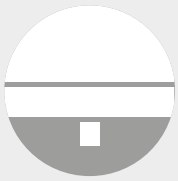
Opening drain tray and inner drain tray
for great accessibility (315 mm).

BREEZE H

Angled Air Cooler

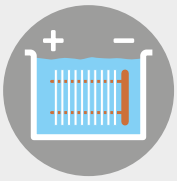
Wired fan unit
to optimize installation activities.

Reliability
with increased thicknesses and aluminum endplates.



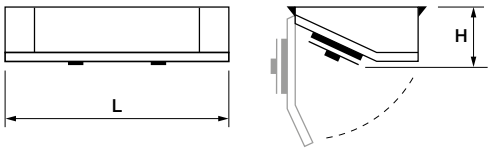
Aluminum casing and drain connections
for high solidity.

Machine easy to sanitise
thanks to hinged casing.



Maximum corrosion resistance with cataphoresis.

CONFIGURATIONS



RANGE	MODELS	FANS		CAPACITY	POLES	FIN SPACING	H max	L max	DEFROST	
	Nr.	Nr.	Ø mm	DT 8K		mm	mm	mm	STANDARD ELECTRIC	HOT GAS
BREEZE H 25	9	1 ÷ 3	250	0,8 ÷ 3,7 kW	4	3 - 4,5 - 7	256	1221	○	
BREEZE H 31	9	1 ÷ 3	315	1,8 ÷ 8,3 kW	4	3 - 4,5 - 7	311	2061	○	

ACCESSORIES

ACCESSORIES	BREEZE H	
	25	31
EC fan	○	○
Electric wiring	●	●
AISI 304 casing	○	○
Easy access	●	●
Drain heater	○	○
Coil cathode treatment	○	○
Cataphoresis coil treatment	○	○
Pre painted fins	○	○
Connections		

● Standard ○ Optional

STANDARD PRODUCTS

All synthetic refrigerants, CO_2, NH_3, Water

BOREA

Commercial Cubic Air Cooler

Fin spacing available
4 - 5,5 - 6,5 - 7,5 - 9 mm

Ventilations available
Ø 250 - 315 - 350 - 450 - 500 mm

Capacity DT 8K
1 ÷ 70 kW

Number of fans
1 ÷ 4

ZEFIRO

Dual-Discharge Commercial Air Cooler

Fin spacing available
3 - 4,5 - 7 mm

Ventilations available
Ø 250 - 315 - 350 - 450 - 630 mm

Capacity DT 8K
1 ÷ 149 kW

Number of fans
1 ÷ 5

BREEZE

Commercial Angled Air Cooler

Fin spacing available
3 - 4,5 - 7 mm

Ventilations available
Ø 250 - 315 mm

Capacity DT 8K
0,8 ÷ 9,3 kW

Number of fans
1 ÷ 3

GRECALE

Industrial Cubic Air Cooler

Fin spacing available
4 - 6 - 8 - 10 - 12 mm

Ventilations available
Ø 500 – 560 – 630 – 710 – 800 - 910 mm

Capacity DT 8K
7 ÷ 270 kW

Number of fans
1 ÷ 7

SCIROCCO

Table-Type Condenser Gas Cooler and Dry Cooler

Ventilations available
Ø 350 - 500 - 630 - 800 - 900 mm

Capacity DT 15K
5 ÷ 1430 kW

Number of fans
1÷16

ZONDA

V-Type Single-Row Condenser Gas Cooler and Dry Cooler

Ventilations available
Ø 630 - 800 - 900 mm

Capacity DT 15K
23 ÷ 1180 kW

Number of fans
1 ÷ 8

OSTRO

V-Type Double-Row Condenser Gas Cooler and Dry Cooler

Ventilations available
Ø 800 - 900 mm

Capacity DT 15K
210 ÷ 2570 kW

Number of fans
4 ÷ 22

PRODUCTS ON REQUEST

ALISEO

Special Air Cooler for the ripening of tropical fruit

Fin spacing available
4 - 5 mm

Ventilations available
Ø 560 - 630 mm

Number of fans
1 ÷ 6

Dimensions
From 2,4 to 7,2 m lenght

BLIZZARD

Industrial Cubic Air Cooler for niche installation

Fin spacing available
4 - 12 mm

Ventilations available
Ø 710 - 900 mm

Number of fans
2 ÷ 5

Dimensions
From 3,2 to 8,2 m lenght

BURAN

Fast Freezer Blowing Fan

Fin spacing available
6 - 12 mm

Ventilations available
Ø 500 - 630 - 710 mm

Dimensions
From 1,5 to 6 m lenght

TORNADO

Industrial Blast Freezer

Fin spacing available
10 - 20 - 40 mm (differentiated)

Ventilations available
Ø 710 - 900 mm

Number of fans
1 ÷ 4 (blowing fans)

Dimensions
From 1,7 to 5,5 m lenght

AIR HEAT
EXCHANGER
MANUFACTURER