

# OSTRO

The new V-type double-row  
dry cooler

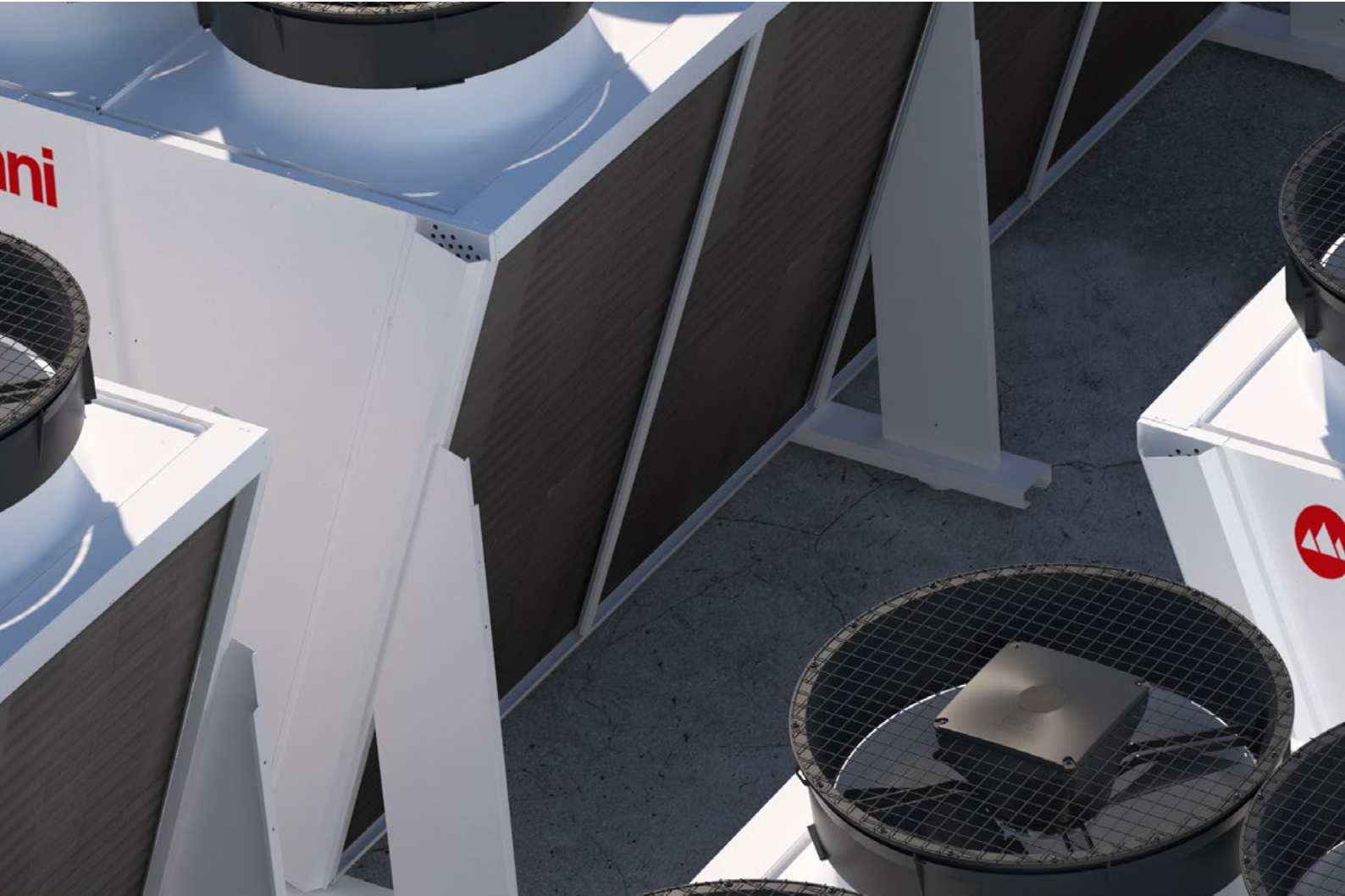
AIR HEAT EXCHANGER MANUFACTURER

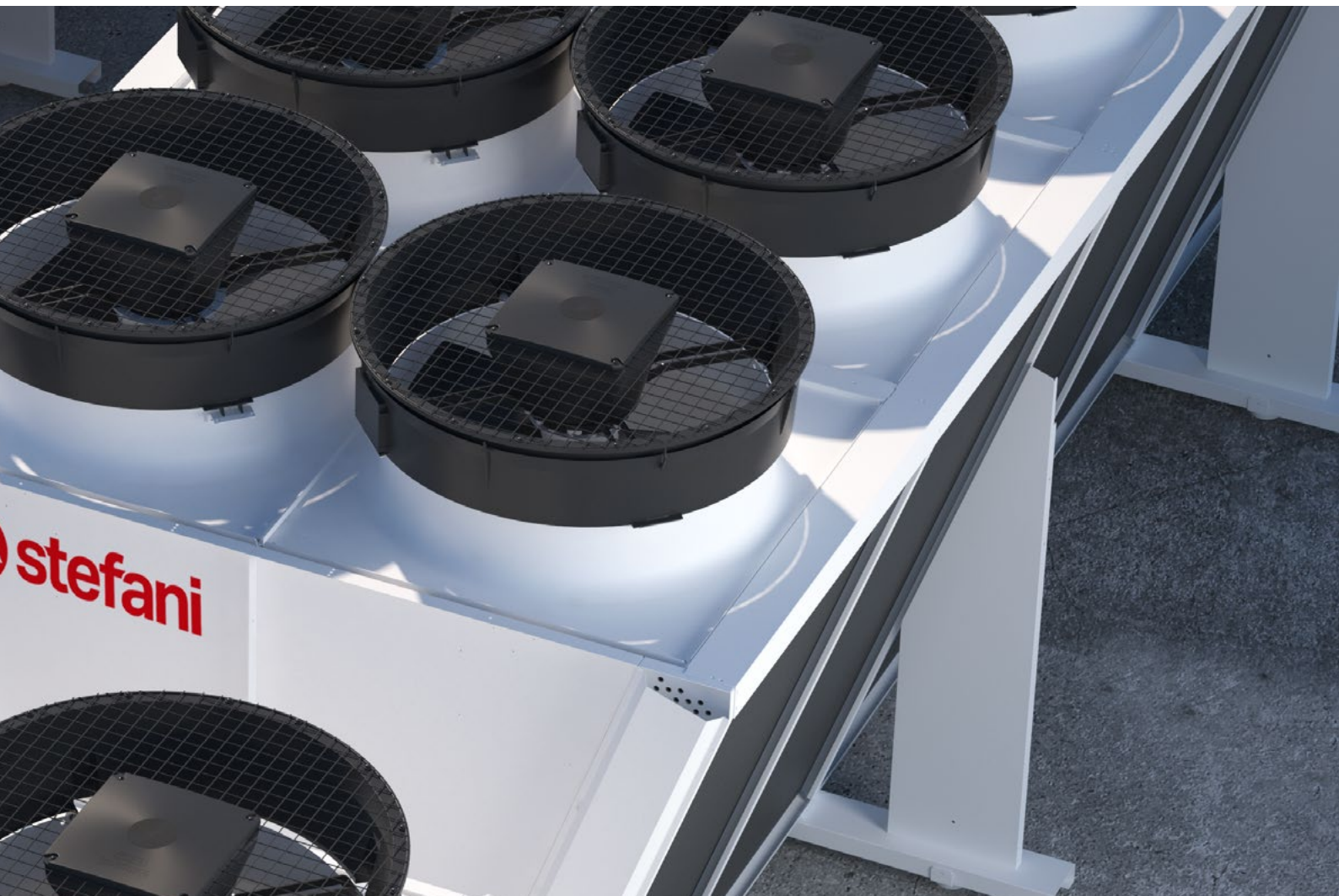


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The new V-type double-row dry cooler





**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.

# OSTRO

## The new V-type double-row dry cooler

- 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.

### FLUIDS AVAILABLE

- All synthetic refrigerants
- CO<sub>2</sub> - gas cooler 120 bar
- NH<sub>3</sub> - ammonia condenser
- Brine cooler

Capacities up to **2030 kW**

DT15°C, EG 35%  
IN THE DRY VERSION

Capacities up to **3000 kW**

DT15°C, EG 35%  
IN THE ADIABATIC VERSION

**480 models**

in 2 configurations

**3**

years of warranty

**790 kW**

DT15 EG 35% AC fan 44 db(A) 10 m.  
High capacities with low noise

Up to **75 kW/m<sup>2</sup>**

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.



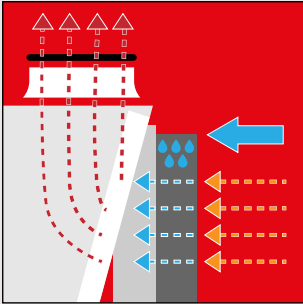
**Connection protected**  
thanks to header protection pannels.



**Optimised transport**  
with units sized for container  
transport.

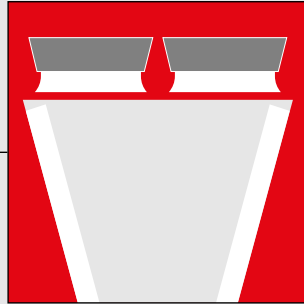
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## The new V-type double-row dry cooler



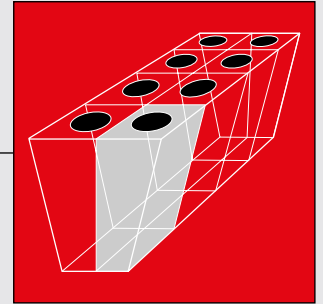
### Versions with ADIABATIC operation

with non-organic PAD.



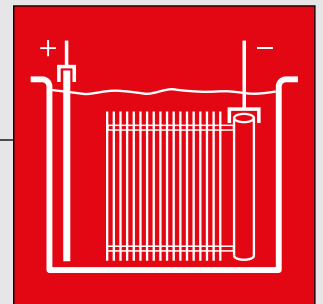
### Super silent versions

using EC motors and silencers.



### Excellent aeraulics thanks to air flow separation baffles

longitudinal and transverse.



### High corrosion resistance

with electrolytic coating treatments.

## Range

Length	up to 12.5 m
Versions available	with stainless steel pipes and casing
Fin material	Al, Al-Mg, Cu, Al pv, Al cath
3 fin spacing	2,1 - 2,4 - 3,6 mm
DT15°C EG 35% capacity	220 ÷ 2030 kW in the Dry version
Fan size	Ø 800 - 900 - 1000 mm
Number of fans	4 ÷ 18

## Accessories

- High-temperature motors
- EC versions with silencer
- EC fan (option THD < 5%)
- Heat exchanger treatment resistant up to 6000 h in saline mist
- Adiabatic solutions: sprayed pack and spray system with nozzles
- Wired plug&play adjustment systems
- Recirculation system for legionella-free PAD
- Drainable circuits, vibration dampers and flanges
- Coil protecting wire nets



# 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 m<sup>3</sup>/hour without recirculation
- 1.9 m<sup>3</sup>/hour with recirculation
- 18 X 900 6 POLE 34 kW consumption 1.7%
- 58 db(A) 10 m
- AT 50% EXCHANGE CAPACITY
- 1.7 m<sup>3</sup>/hour without recirculation
- 0.9 m<sup>3</sup>/hour with recirculation
- 5 kW consumption that is 0.5%
- 37 db(A) 10 m

## SETTING

### Simple system setting

#### Settings:

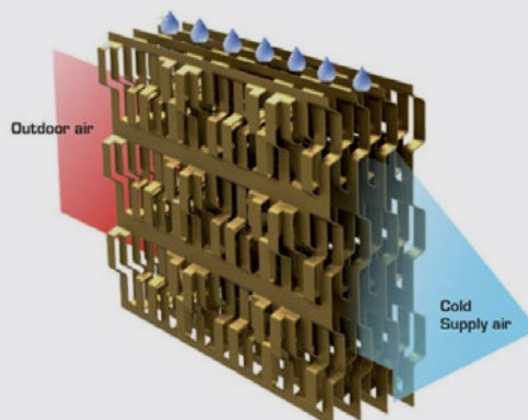
- fluid outlet temperature
- dry/wet switching temperature

#### 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  $\Delta T1$  10°C to  $\Delta T1$  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.

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for great customers**