



CATALOG

IntrCool Plus



World leader in adiabatic cooling



IntrCooll Plus configurations

	1.	2.	3.	4.	5.	6.
	IntrCooll Plus Support frame*	IntrCooll Plus Support frame* HR-module	IntrCooll Plus FK-module	IntrCooll Plus FK-module HR-module	IntrCooll Plus NV-module	IntrCooll Plus NV-module HR-module
Features						
Cooling	●	●	●	●	●	●
Ventilation	●	●	●	●	●	●
Heat re-use + ventilation	○	●	○	●	○	●
Heating	○	○	○	○	○	○
Natural Exhaust	○	○	○	○	●	●
Mandatory						
Filter set						
- G4 filter	○	○	○	○	○	○
- M5 filter + pre-filter	○	○	○	○	○	○
- F7 filter + pre-filter	○	○	○	○	○	○
Options						
Support frame	●	○	○	○	○	○
Flashing Kit – XE Panels	○	○	○	○	○	○
Heating coils	○	○	○	○	○	○
Recirculation filter set	○	○	○	○	○	○
Fan module						
- Axial fan module	●	●	●	●	●	●
- High pressure fan module	○	○	○	○	○	○
Thermostat - Programmable	○	○	○	○	○	○
Thermostat – Non-programmable	○	○	○	○	○	○
OxyConnect gateway	○	○	○	○	○	○
UV-C Diving Emitter	○	○	○	○	○	○
BMS prepared (not in combination with OxyConnect)	○	○	○	○	○	○
Extra cooling (future product)						
Outdoor air damper	○	●	○	●	○	●
Duct damper section	○	○	○	○	○	○
AirOptimizer diffuser	○	○	○	○	○	○
Nozzle diffusers						
- Nozzle diffuser 160° top	○	○	○	○	○	○
- Nozzle diffuser 160° rear	○	○	○	○	○	○
- Nozzle diffuser 360° top	○	○	○	○	○	○
Coil - Freeze protection set	○	○	○	○	○	○
Water supply = Freeze protection set	○	○	○	○	○	○
Weatherproof cover	○	○	○	○	○	○

* same features and options without the use of a support frame

○ Not possible ○ Optional ● Standard

IntrCooll Plus

Ventilation, free cooling & indirect/direct adiabatic cooling (IDEC)

Specifications

- Wet-bulb efficiency : up to 114%
- Maximum airflow : 14,000 m³/h at 145 Pa (incl. G4 filters)
: 14,000 m³/h at 160 Pa (incl. F7 filters)
- Rated power : 4.9 kW* with supply fan
: 2.1 kW w/o supply fan
- Sound pressure level : 66 dB(A) at 4 m indoor
: 55 dB(A) at 10 m free field
- Cooling capacity : up to 130 kW
- E.E.R.** : up to 30 in Europe / up to 40 in the Middle East

Optional

- On request is a marine (coated) IntrCooll Plus available



* Maximum at 160 Pa External Static Pressure (ESP) 7 F7 filters

** Energy Efficiency Ratio

Product information

Article number with supply fan	Article number w/o supply fan	Dimensions
5301067	5301065	1961 x 1961 x 1460 mm
Dry weight	Dry weight	
± 393 kg (excl. accs)	± 358 kg (excl. accs)	
Wet weight	Wet weight	
± 577 kg (excl. accs)	± 542 kg (excl. accs)	

Support frame

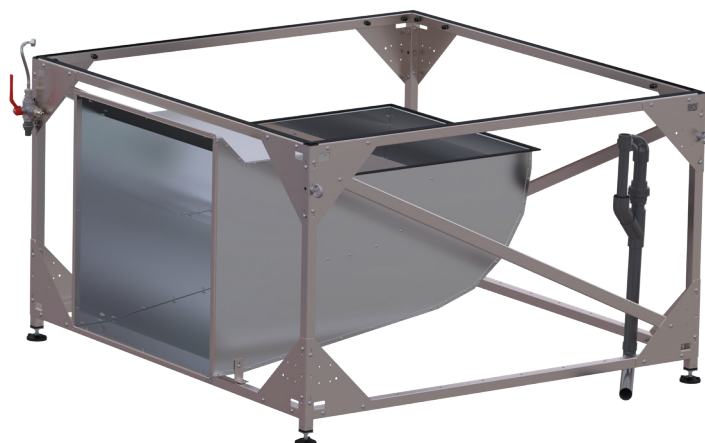
Supply the air through the facade or connect to AHU

Includes

- IntrCoolII support
- Shut-off water valve
- Flexible water supply hose
- Water connection for maintenance purposes
- PVC drainage material for spout and overflow

Optional

- Duct elbow 90° - Support Frame Plus



Product information

Article number support frame	Article number duct
5301305	5301330
Dimensions	Dimensions
2006 x 1990 x 1116 mm	□ 900 mm
Weight	Weight
62 kg	23 kg



Flashing Kit module

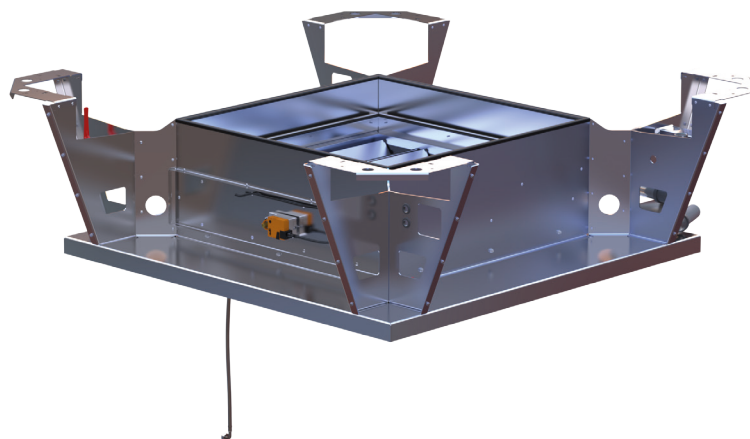
Several products combined in one: simplifies the installation process

Includes

- IntrCoolll support
- Lead-through for cables and water supply
- Shut-off water valve
- Water connection for maintenance purposes
- Flashing flange
- Flexible water supply hoses (indoor/outdoor)
- Sealing materials included
- Empty section for outdoor air damper

Optional

- Outdoor air damper with actuator
- Flashing Kit - XE Panels



Product information

Article number	Weight
5301076	55 kg
Dimensions	Weight with outdoor air damper
± 2000 x 2000 x 600 mm	68.5 kg



Natural Ventilator module

Natural exhaust

Includes

- IntrCoolll support
- Empty section for outdoor air damper
- Lead-through for cables and water supply pipe
- Shut-off water valve
- Water connection for maintenance purposes
- Flashing flange
- Flexible water supply hoses
- Sealing materials included
- Natural ventilation with 4 exhaust air dampers with modulating actuator

Optional

- Outdoor air damper with actuator



Product information

Article number	Weight
5301407	221 kg
Dimensions	Weight with outdoor air damper
2259 x 2259 x 1038 mm	234.5 kg



Heat Reclaim module

Re-use internal heat(load) to ventilate (fresh air), compensate underpressure, and reduce stratification

Includes

- 2 recirculation dampers
- 1 outdoor air damper
(fits in slot: Natural Ventilator module, Flashing Kit module, and Duct damper section)
- 3 modulating damper actuators
- Suspension cables and turnbuckles (4x)

Optional

- Recirculation filters (F7 ePM1 70%)
- Heating coils

Functionality

- Recirculation combined with fresh air (modulating)
- Heat trapped at ceiling generated by in- and external factors is used to maintain a proper supply temperature while ventilating or compensating underpressure
- Prevents stratification and therefore reduces heat losses
- If indoor temperature exceeds heating setpoint, ventilation is increased
- Air flow can be distributed horizontally or vertically



Product information

Article number

5301361

Weight

77.5 kg

Dimensions

1252 x 1009 x 1016 mm



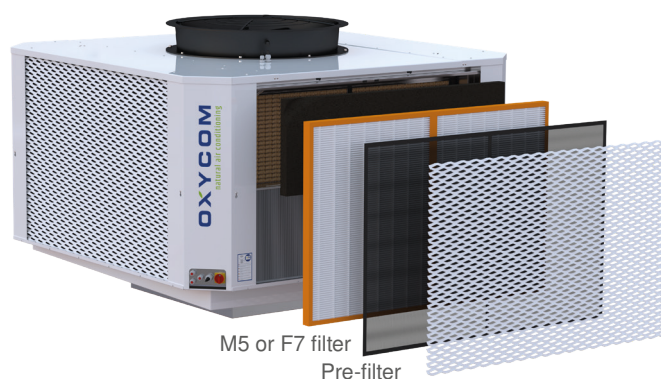
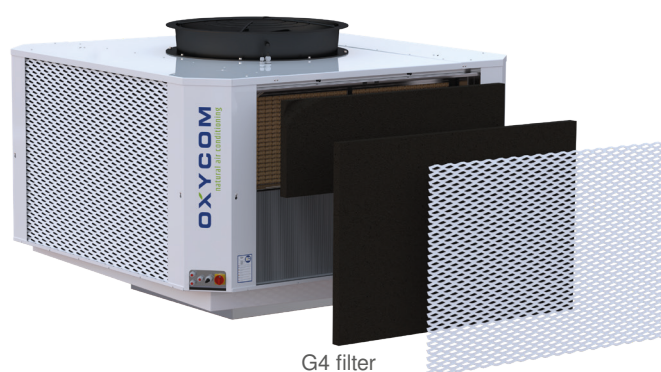
Filter set

Unique highly efficient filter material

Filter types

There are three different filter types available:

- G4 filter set (60% coarse)
- M5 filter set (ePM10 50%)
Pre-filter mesh mandatory
- F7 filter set (ePM1 70%)
Pre-filter mesh mandatory



Product information

Article number G4 filter

5301102

Article number F7 filter

5301072

Article number M5 filter

5301071

Article number Pre-filter mesh

5301069

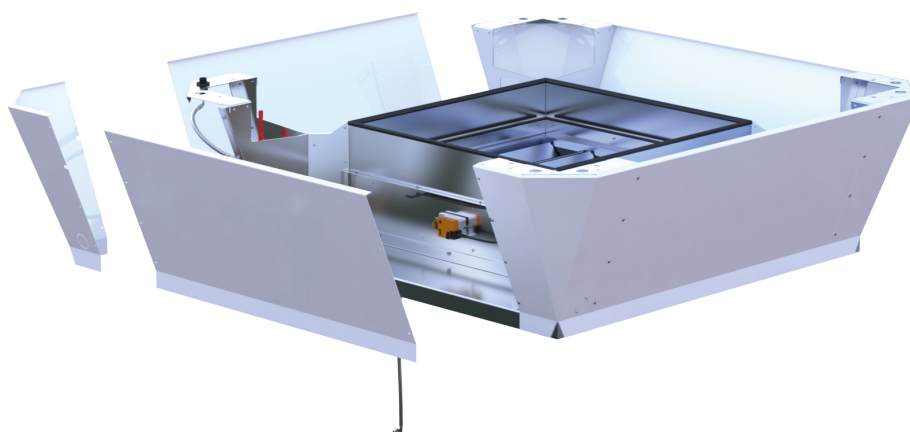


Flashing Kit - XE Panels

Add-on for the Flashing Kit module

Functionality

- Eliminates external heat load on duct
- Eliminates external heat load on water tank
- Protects valve, actuator, cables and hoses from weather influences



Product information

Article number

5301077

Weight

18 kg

Dimensions

1300 x 620 x 300 mm

Heating coils

Heating coils for the Heat Reclaim module

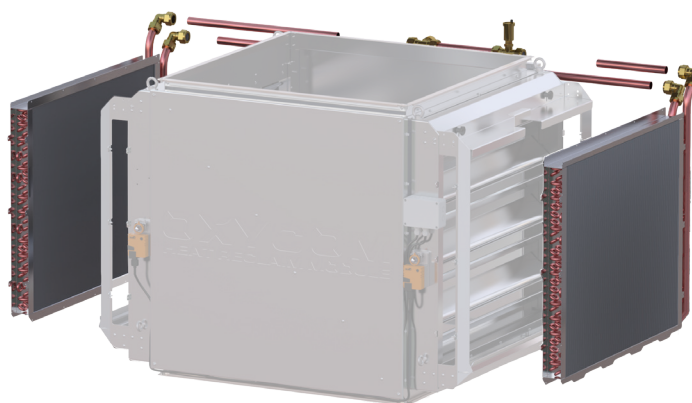
Includes

- Supply of fresh air and recirculation air is maximum 7,000 m³/h fresh outside air and 7,000 m³/h recirculation
- The recirculation air is maximum 8,500 m³/h
- Plumbing materials as shown in the picture, is delivered seperately including couplings and vent

Functionality

- 35-90°C water supply by (thermodynamic) heat pump or central heating
- Heating capacities:

T water	kW heating	T in	T out
45/35	46.45	20	36.1
55/40	65.61	20	42.8
70/50	96.48	20	53.5



Product information

Article number

5301401

Dry weight

27.5 kg

Dimensions incl. HR-module

1292 x 1009 x 1016 mm

Wet weight

39.5 kg



Recirculation filter set

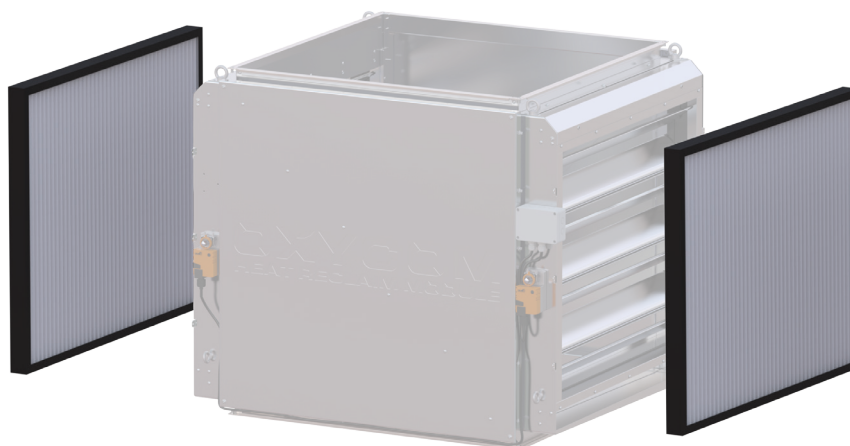
Filters the recirculation air

Includes

- Filter set F7 (ePM₁ 70%)

Functionality

- Quick and easy to change and replace
- To be mounted afterwards by the installer



Product information

Article number

5301400

Weight

5 kg (per 2)

Dimensions

900 x 738 x 48 mm



Fan module

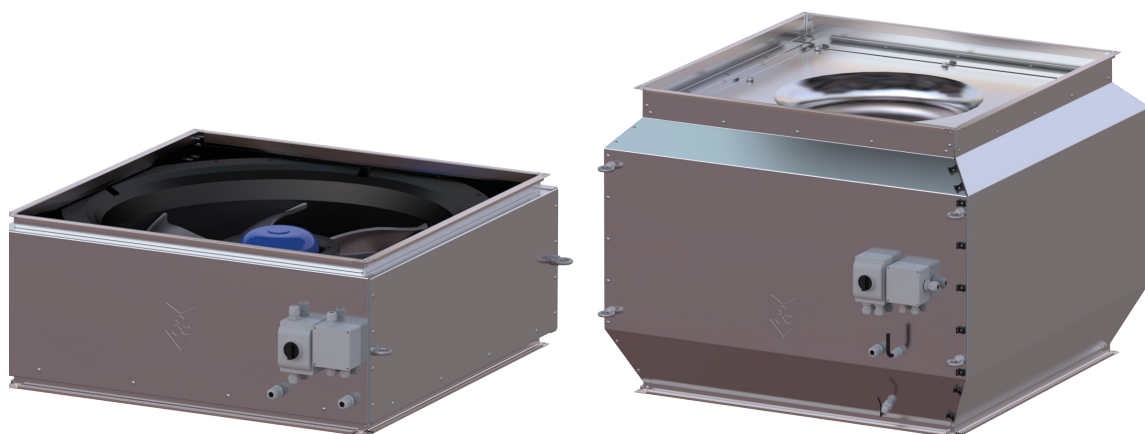
Air supply

Fan types

- Axial fan module
- High Pressure fan module

Application

- The axial fan is the standard version on all IntrCooll Plus configurations
- The high pressure fan is optional to all configurations



Product information

Article number axial fan

5301362

Dimensions

1050 x 1050 x 410 mm

Weight

55 kg

Article number high pressure fan

5301399

Dimensions

1050 x 1140 x 810 mm

Weight

105 kg



Thermostat - Programmable

A controller for one IntrCooll

Includes

- Remote monitoring only possible i.c.w. OxyConnect (ethernet connection required)
- Adjustable 7-day schedule (4 switching points per 24h)
- Displays indoor temperature and relative humidity
- Switches automatically between active or free cooling, and heating
- Controls the maximum permissible relative humidity

Optional

- External temperature sensor (max. 10 m cable length)



Product information

Article number

5301109

Weight

0.25 kg

Dimensions

250 x 400 x 30 mm



Thermostat - Non-programmable

A controller for one IntrCooll

Includes

- Displays indoor temperature and relative humidity
- Switches automatically between active or free cooling, and heating
- Controls the maximum permissible relative humidity

Optional

- External temperature sensor (max. 10 m cable length)



Product information

Article number

5301110

Weight

0.25 kg

Dimensions

250 x 400 x 30 mm

OxyConnect gateway

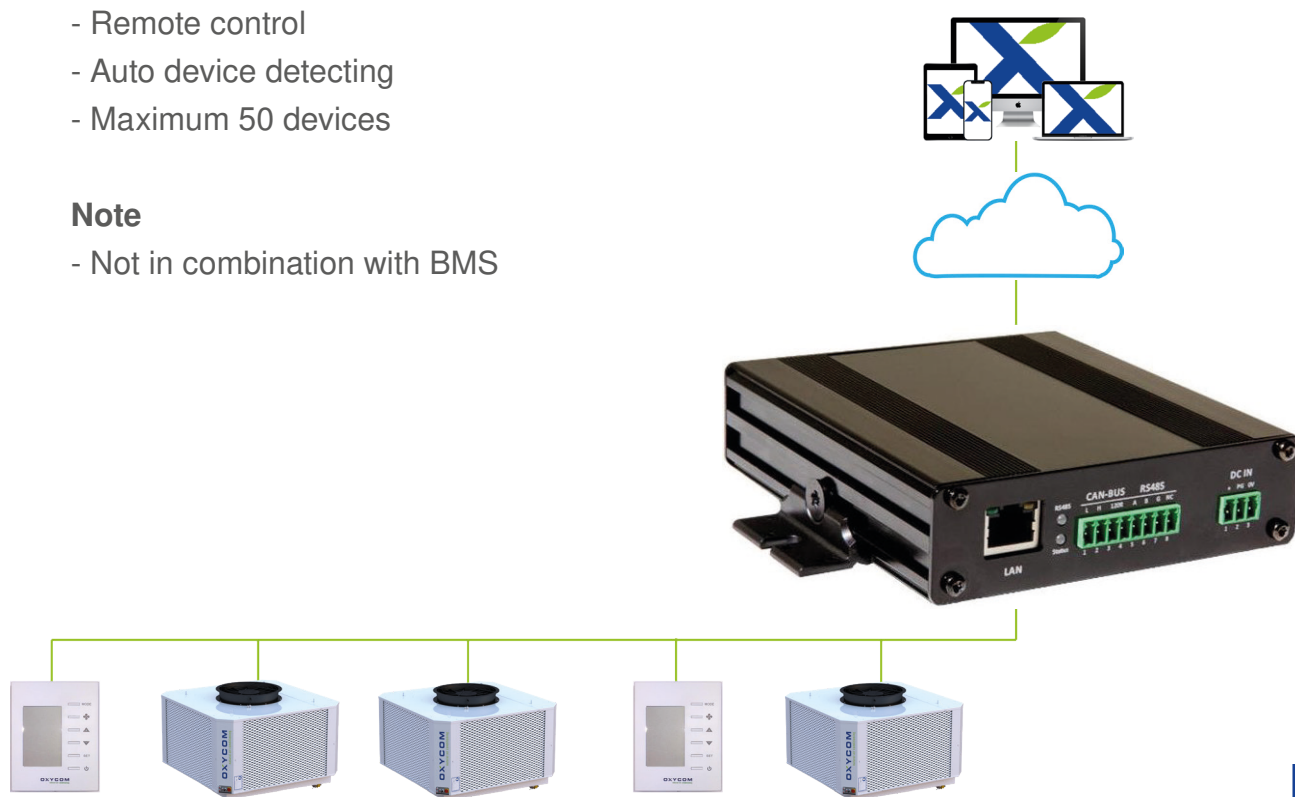
A gateway to connect all IntrCooll's and thermostats

Includes

- Remote monitoring (LAN connection required)
- Network configuration (LAN connection required)
- 24V DC power supply
- Remote control
- Auto device detecting
- Maximum 50 devices

Note

- Not in combination with BMS



Product information

Article number

5301108

Weight

1 kg

Dimensions

200 x 120 x 40 mm



UV-C Diving Emitter

Water disinfection

Location

- Water tank of IntrCool unit

Functionalities

- Sterilizes water
- Kills unwanted microorganisms
- Prevents algae growth

Service life

- 14,000 hours



Product information

Article number

5301048

Weight

0.8 kg

Dimensions

25 x 25 x 400 mm



Outdoor air damper

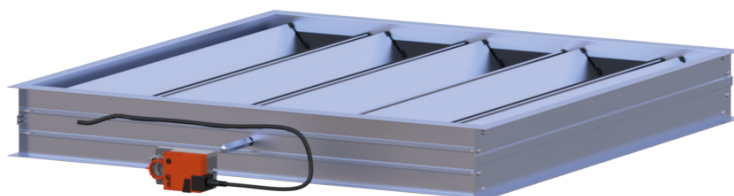
Damper to prevent cold draft in winter

Includes

- Modulating actuator
- Dimensions □ 900 mm
- Can be positioned horizontally or vertically

Functionality

- Applicable in the Flashing Kit and Natural Ventilator module, and Duct damper section



Product information

Article number

5301078

Weight

16 kg

Dimensions

979 x 961 x 125 mm



Duct damper section

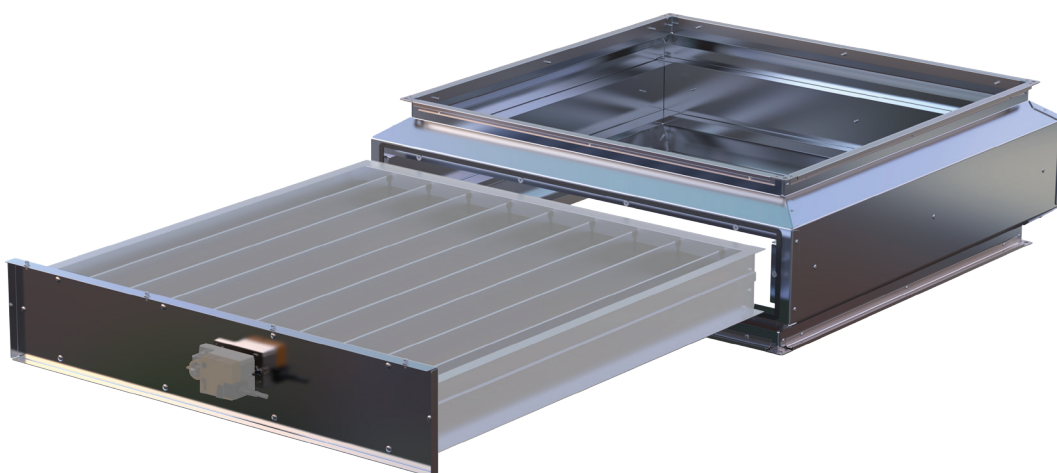
Empty duct section for the outdoor air damper

Includes

- Dimensions □ 900 mm
- Mounting flange
- Can be positioned horizontally or vertically

Functionality

- Empty duct section to position the outdoor air damper if a support frame is used
- Empty duct section to position the outdoor air damper if no Flashing Kit or Natural Ventilator module is used



Product information

Article number

5301321

Weight

16 kg

Dimensions

1000 x 1060 x 130 mm

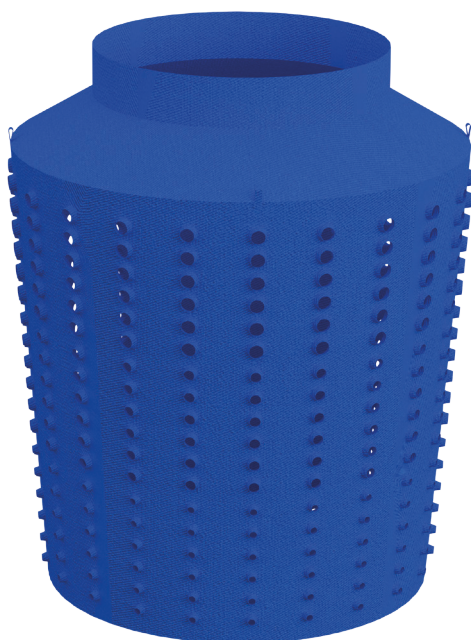


AirOptimizer diffuser

Optimal air distribution & velocity

Features

- Dimensions Ø 900 mm
- 360° air distribution
- Air throw 15 m (900 m²)
- Creates slight velocity for optimal comfort
- Food safe
- Sleek design
- Equipped with a zipper
- Washable



Product information

Article number	Weight
5301041	6 kg
Dimensions	Color
1700 x Ø 1400 mm	Blue - RAL 5005



Nozzle diffusers

Air plenums to optimize air supply

Includes

- Dimensions □ 900 mm
- Suspension cables and turnbuckles (4x)

Functionality

- Use Nozzle diffusers in case of cranes, low ceiling, or other obstacles
- A version with rear or top connection is available
- Adjustable rubber nozzle's for optimal air supply
- Air throw 10 to 20 m



Product information

Article numbers

5301358

5301359

5301360

Dimensions

1366 x 583 x 1009 mm

1366 x 1153 x 969 mm

1559 x 1441 x 484 mm

Weights

28 kg

35 kg

28 kg



Coil - Freeze protection set

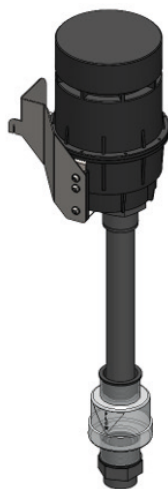
Protects air-to-water heat exchangers against frost damage

Includes

- Air blower
- Check valve
- PVC piping and fittings
- Timer relays for automatic operation

Functionality

- Trouble-free operation of the IntrCooll without the need for winter preparation
- Eliminates the risk of freeze-up of the heating coils and pipes
- Automatically removes remaining water that stays behind in tubes
- Automatic start up in spring



Product information

Article number

5301463

Weight

10 kg

Dimensions

218 x 181 x 1022 mm

Water supply - Freeze protection set

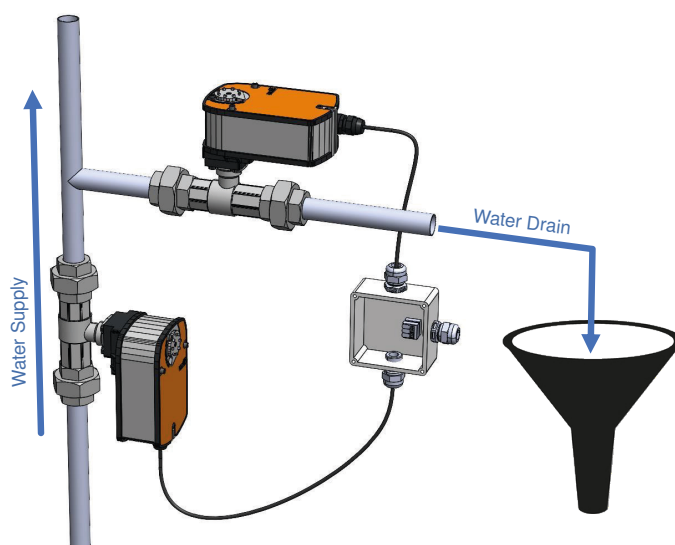
Protects the water supply line against frost damage

Includes

- 2 protection devices
- 2 actuated valves

Functionality

- Protects water supply line against frost
- Shuts off water supply
- Opens the drain to empty the waterline to the IntrCooll



Product information

Article number

5301085

Weight

6 kg

Dimensions

32 x 32 x 17 mm

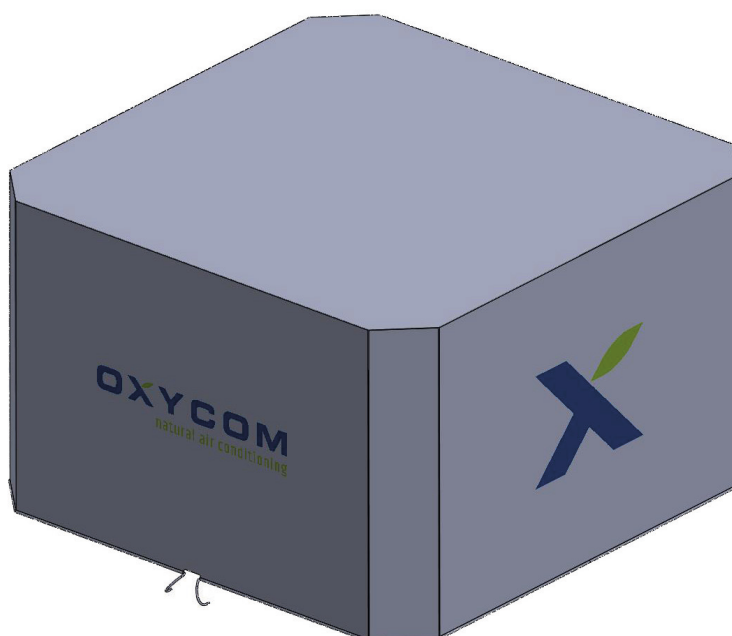


Weatherproof cover

Protects your IntrCooll against extreme weather conditions

Functionality

- Cover to protect the unit when it is turned off
- Prevents damage and corrosion



Product information

Article number

5301083

Weight

3 kg

Dimensions

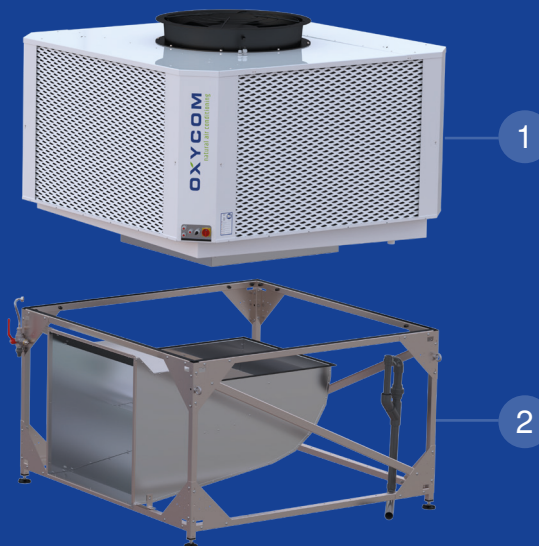
600 x 400 x 300 mm



IntrCooll Plus configurations

IntrCooll Plus - Support frame

[Watch installation video →](#)



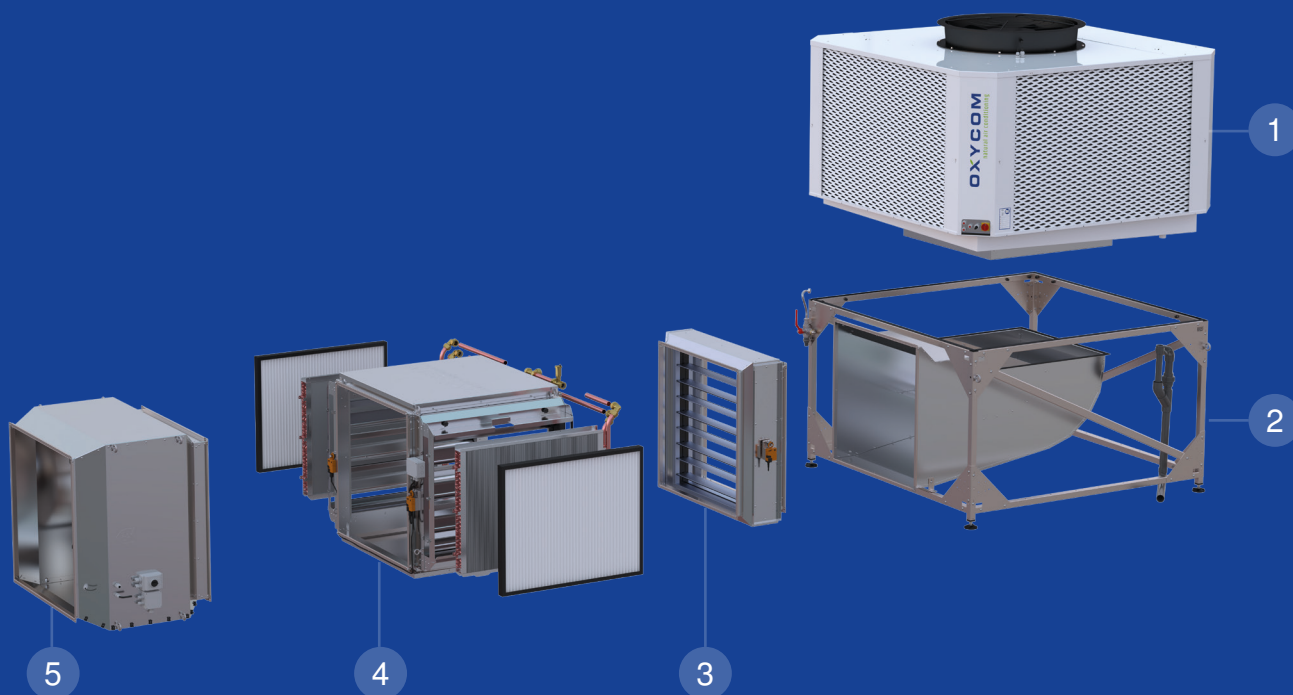
Description

1. IntrCooll Plus	
A. IntrCooll Plus (C)	5301067
B. IntrCooll Plus (C) - marine (coated coils)	5301068
C. IntrCooll Plus (C) - w/o supply fan	5301065
D. IntrCooll Plus (C) - w/o supply fan - marine (coated coils)	5301066
a) Main filter set G4 (60% coarse)	5301102
b) Main filter set M5 (ePM10 50%)	5301071
c) Main filter set F7 (ePM1 70%)	5301072
d) Pre-filter mesh (for M5 and M7)	5301069
2. Optional: Support frame - Plus	5301305
Optional: Duct elbow 90° □ 900 mm - Support Frame Plus	5301330



IntrCooll Plus configurations

IntrCooll Plus - Support frame - Heat Reclaim module - Fan module



Description

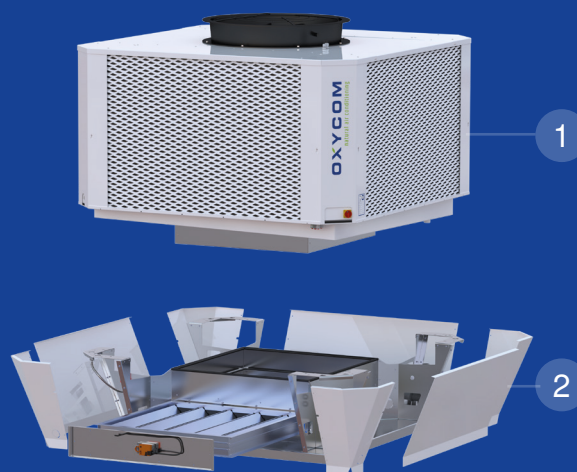
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c) Main filter set F7 (ePM1 70%)	5301072
d) Pre-filter mesh (for M5 and M7)	5301069
2. Optional: Support frame - Plus	5301305
Optional: Duct elbow 90° □ 900 mm - Support Frame Plus	5301330
3. Duct damper section	5301321
4. Heat Reclaim module including outdoor air damper	5301361
Optional: Heating coils	5301401
Optional: Recirculation filter set F7	5301400
5. High Pressure fan module	5301399



IntrCooll Plus configurations

IntrCooll Plus - Flashing Kit module

[Watch installation video →](#)



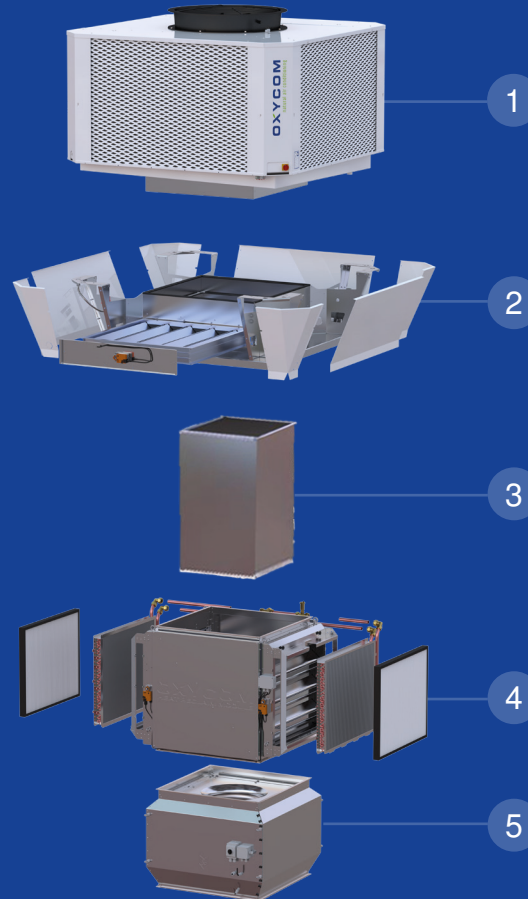
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d) Pre-filter mesh (for M5 and M7)	5301069
2. Flashing Kit module	5301076
Optional: Outdoor air damper	5301078
Optional: Flashing Kit - XE panels	5301077



IntrCooll Plus configurations

IntrCooll Plus - Flashing Kit module - Heat Reclaim module - Fan module



Description

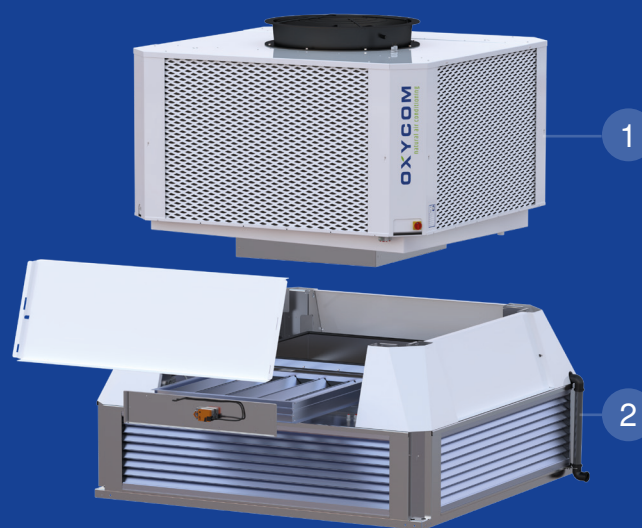
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c) Main filter set F7 (ePM1 70%)	5301072
d) Pre-filter mesh (for M5 and M7)	5301069
2. Flashing Kit module	5301076
Optional: Flashing Kit - XE panels	5301077
3. Duct □ 900 mm L = 1000 mm	5301081
4. Heat Reclaim module including outdoor air damper	5301361
Optional: Heating coils	5301401
Optional: Recirculation filter set F7	5301400
5. Fan module	
Optional: Axial fan module	5301362
Optional High Pressure fan module	5301399



IntrCooll Plus configurations

IntrCooll Plus - Natural Ventilator module

[Watch installation video →](#)



Description

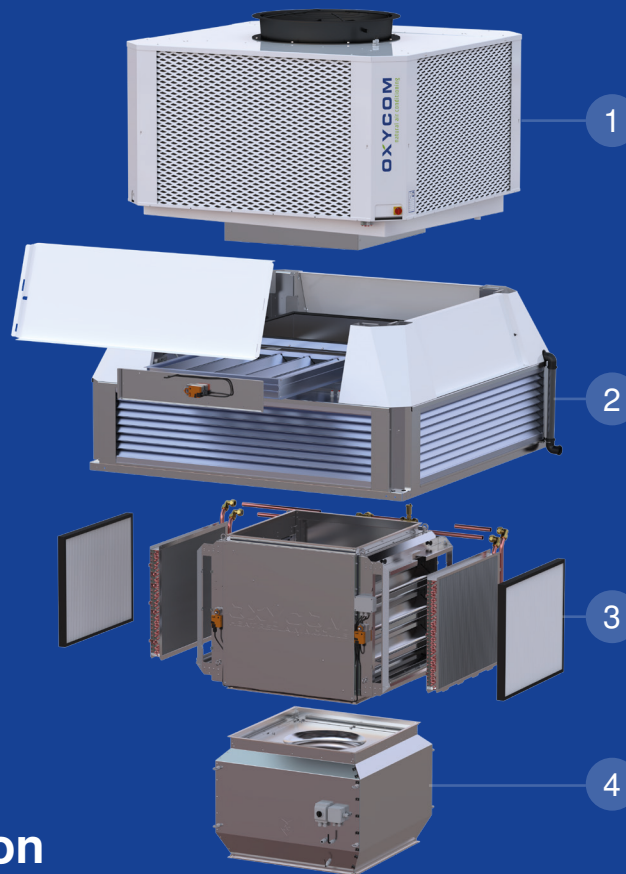
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c) Main filter set F7 (ePM1 70%)	5301072
d) Pre-filter mesh (for M5 and M7)	5301069
2. Natural Ventilator module	5301407
Optional: Outdoor air damper	5301078



IntrCooll Plus configurations

IntrCooll Plus - Natural Ventilator module - Heat Reclaim module - Fan module

[Watch installation video →](#)



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d) Pre-filter mesh (for M5 and M7)	5301069
2. Natural Ventilator module	5301407
3. Heat Reclaim module including outdoor air damper	5301361
Optional: Heating coils	5301401
Optional: Recirculation filter set F7	5301400
4. Fan module	
Optional: Axial fan module	5301362
Optional: High Pressure fan module	5301399



Get in touch

Does our catalogue spike your interest in Oxycom's unique and patented dual-stage evaporative cooling systems? Schedule a free consultation meeting with one of our climate specialists and ask about the possibilities:



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