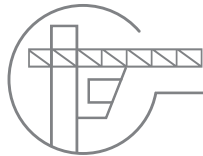


VKS Series Crane Cab Coolers

VM Medium Type Units



Crane Cabins



E-Containers/Shelters



Control Rooms



VKS Series Crane Cabin Coolers are perfectly efficient, reliable and long lasting units engineered to operate in harsh environments. Depending on the working conditions, VKS Series units are engineered to fit the highest quality industry requirements and customer needs.

VM Medium Type units are designed for medium-duty industrial applications such as process cranes, operator cabins, shelters, containers in metallurgy, oil&gas, cement, energy, automotive, mining and port industries. The main features and advantages of this product are; plug & play compact design, less needs for erection services. The cooling, fan only, heating function modes are available while the filtering is always operating.

General Specifications*



2 kW - 7 kW

cooling capacity



-15°C / +80°C

upper limit ambient
temperature for operation



Dust Resistant

Durable design against dust.



Corrosion Resistant

Durable design against corrosion.



Vibration Resistant

Durable design against vibration.

- R134a, R227ea, R513a and R450a refrigerants are used according to different ambient temperatures
- Compact design with ease of maintenance
- Galvanized steel body and epoxy coating
- Perfect insulation at evaporator section and A/C control panel with IP55 class protection
- Hermetic reciprocating compressor with built-in overload protection, high performance lubricant and oil heater
- Vibration absorbers on the compressor, both on discharge and suction sides
- Condenser coil is made with copper tubes and aluminum straight fins with wide fin space¹
- Direct triggered Condenser fan with the protection grid
- Evaporator coil is made with copper tubes and aluminum straight fins with wide fin space¹
- Direct triggered radial evaporator fan with low sound level
- Thermostatic expansion valve with external equalizer
- Stainless steel drain water pan
- Liquid solenoid valve, sight glass for humidity and refrigerant level
- EU2 class air filter and clogging alarm
- Electrical heater
- High/low pressure switches
- Digital thermostat with IP54 class protection
- Variant remote control and monitoring options
- Contactors, motor protection switches and circuit breakers for all motors, fire contact
- Auto switch-over and cycling³
- Power supply; 400VAC/3Ph/50Hz - 460VAC/3Ph/60Hz²
- Anti-rain kit⁴

1. Fin spacing is 2,5mm. The fin spaces show differences depending of material changes on condenser and evaporator coils.
2. Variant power supplies are available, please contact with TMS for more information.
3. This feature is applicable when more than one unit is desired to be used with keeping the next one as standby.
4. Available for outdoor applications.

***Please contact us for further customization requests.**

Nomenclature

Configure your product*

Product Type Code Product Specification Code

VM 350-1 7 0 1 1 0 1

VM Medium type
Crane Cabin Cooler

350-1: 350x10= 3500Watt (nominal)
350-2: 360
420
550
720

4: R134a¹
7: R227ea³
3: R513a¹
0: R450a²

0: 380-420V/3Ph/50H,
440-480V/3Ph/60Hz

1: Remote control
& monitoring (basic)⁴

0: No heating
1: Electrical heating

1: Control voltage; 230 VAC/1 Ph
4: Control voltage; 24VDC

1: EU4 class filter

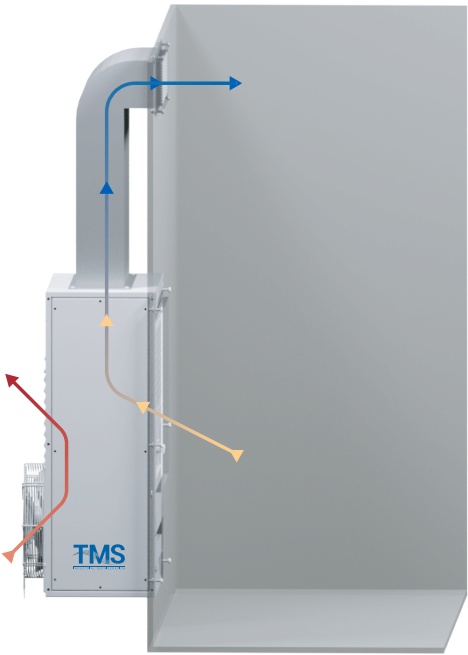


1. For ambient temperatures up to 65 °C
2. For ambient temperatures up to 75°C
3. For ambient temperatures up to 80 °C
4. Remote monitoring system is provided with dry contacts provided with relays connected to fault outputs.

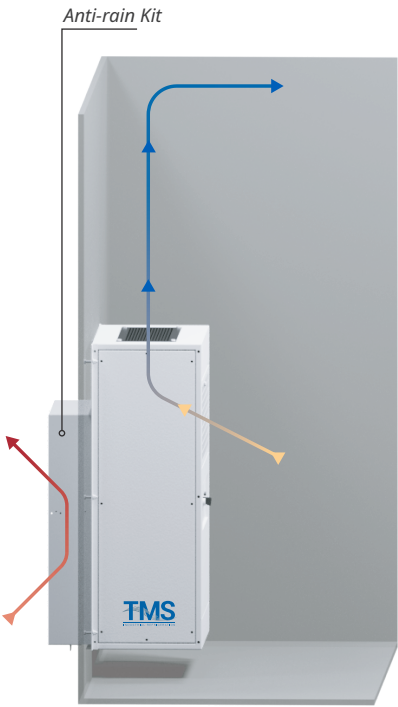
***Please contact us for further customization requests.**

Application Examples

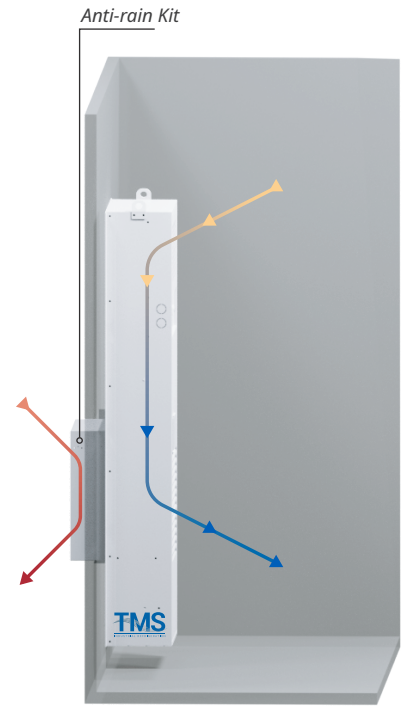
VM720-2 Outdoor



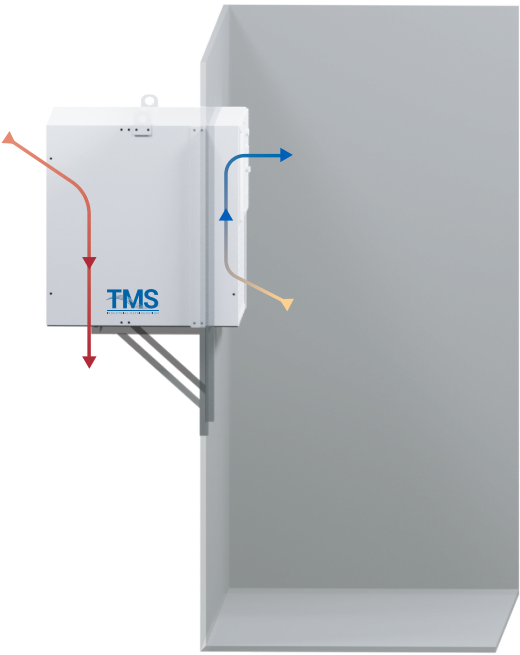
VM720-2 Indoor



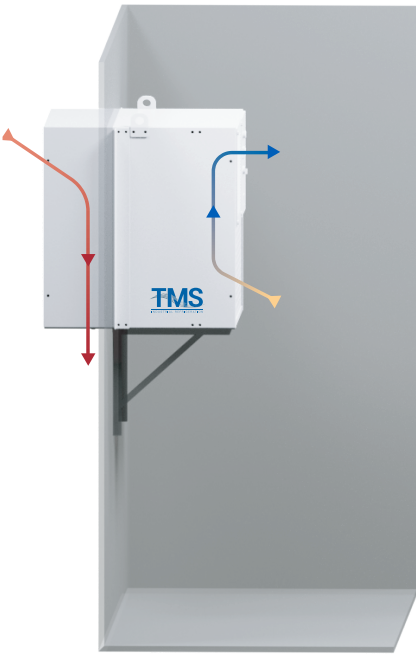
VM350-1 Indoor



VM350-2 Outdoor



VM350-2 Indoor



Technical Specifications



		VM350-1	VM350-2	VM420-2	VM550-2	VM720-2
Cooling Capacity, R134a/R513a ¹	kW	2,25-3,96	2,25-3,96	2,73-4,36	3,39-5,31	4,67-6,85
Cooling Capacity, R227ea ²	kW	2,15-4,05	2,15-4,05	-	-	-
Cooling Capacity, R450a ²	kW	2,05-3,80	2,05-3,80	-	-	-
Heating Capacity	kW	2.00	2.00	2.00	2.00	2.00
Power Input, cooling mode, R134a/R513a ³	kW	2.02	1.81	2.03	2.36	3.48
Power Input, cooling mode, R227ea ³	kW	2.32	2.12	-	-	-
Power Input, cooling mode, R450a ³	m ³ /h	1.83	1.65	-	-	-
Power Input, heating mode	kW	2.35	2.24	2.40	2.40	2.70
Evaporator Air Flow Rate	kW	1000	650	1000	1000	1150
Power Supply ⁴	V/Ph/Hz	400/3/50 460/3/60	400/3/50 460/3/60	400/3/50 460/3/60	400/3/50 460/3/60	400/3/50 460/3/60
Dimensions (WxDxH)	mm	530x280x1840	630x650x680	650x350x1035	780x350x1035	735x385x1370
Net/Gross weight, R134a/R513a/R450a ⁵	kg	130/195	105/155	120/175	140/200	150/215
Net/Gross weight, R227ea ⁵	kg	135/200	110/160	-	-	-

- The cooling capacities are given in the conditions; indoor temperature between 22-35°C, outdoor temperature between 35-60°C. Please contact us for the capacity table.
- The cooling capacities are given in the conditions; indoor temperature between 22-35°C, outdoor temperature between 35-70°C. Please contact us for the capacity table.
- Power input values are given in nominal operating conditions, they may vary in different operating temperatures.
- Standard power supply. Please contact us for different power supply options.
- Gross weight is given including palette+wooden box. This value may vary depending on the packing type.
- Operational temperature range for R134a/R513a is -15/65°C, R227ea is 0/80°C, and R450a is 0/75°C.

*Global Warming Potential

Refrigerant GWP*

R450a 605

R513a 631

R134a 1430

R227ea 3220

