

T SERIES RANGE



SEVERE-DUTY RANGE

The Sigma 'T' Series severe-duty range of mobile air conditioners has been designed to suit production critical earthmoving, quarry and mining equipment where very high levels of shock, vibration and dust laden corrosive environments are experienced and the applications requires a high cooling and heating capacity.

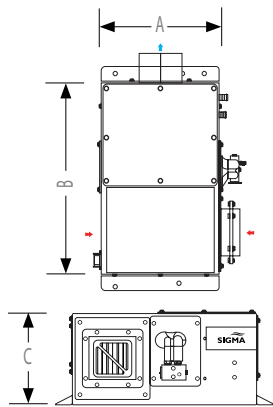
- TCF6BX2 Rooftop Condenser
- TCF7 Rooftop Condenser
- TCF8 Floor Mounted Condenser
- TCF8BX6 Floor Mounted Condenser
- TCW5 Wall Mounted Condenser
- TDR7 Rooftop Package with Heating
- TDR10 Rooftop Packaged with Heating
- TFC6 Ceiling Evaporator
- TFC6BX2 Ceiling Evaporator
- TFC8 Ceiling Evaporator
- TFF5 Floor Mounted Evaporator
- TFR6 Rooftop Evaporator
- TFR7 Rooftop Evaporator
- TPW10BX1 Wall Mount Packaged

BENEFITS

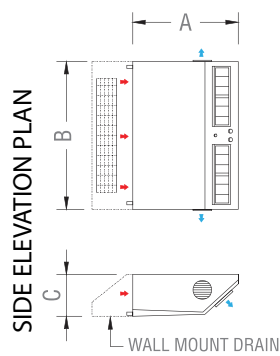
- World class after sales technical and service support
- High ambient operation
- Welded stainless steel construction designed for high vibration and corrosive environments
- Stainless steel washable return air filters
- High quality componentry suitable for severe environments
- Heavy-duty wide finned heat exchangers
- Standard three stage filtration cabin pressurisation
- Large DC motors with stainless steel shafts
- Hinged access and louvered covers retained by catches
- Common components throughout the range
- TX Valve control and system isolation valves.

OPTIONS

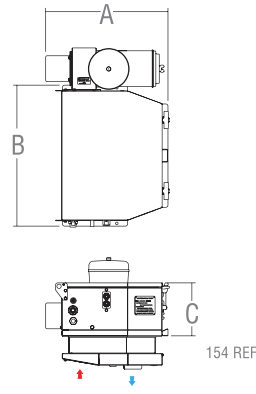
- All mining grade installation components
- Complete system design solutions
- Air purification and high efficiency filtration systems
- Additional corrosion protection
- Self cleaning pre-cleaners
- Radiator mounted condensers
- Hydraulic and electric drive compressors
- Brushless motors
- H13 HEPA Fresh Air Filters



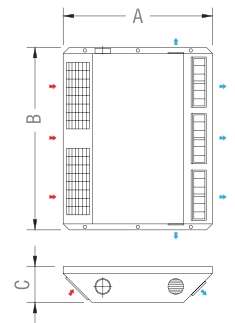
TFF5



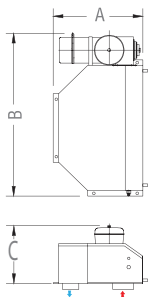
TFC6



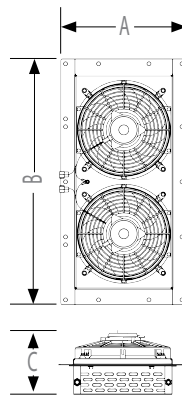
TFR6



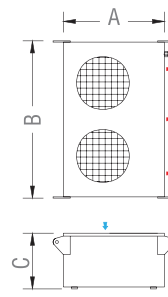
TFC8



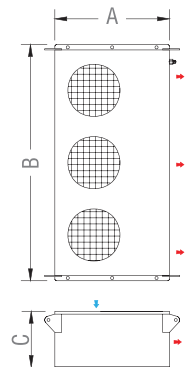
TFR7



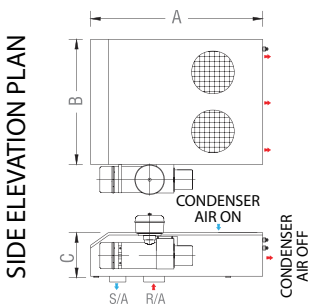
TCW5



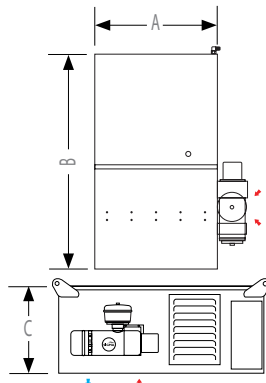
TCF6/7



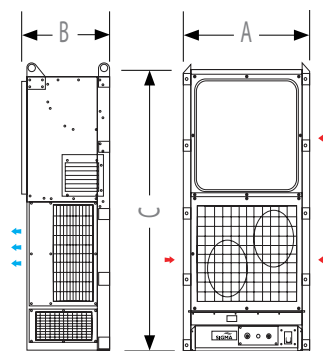
TCF8



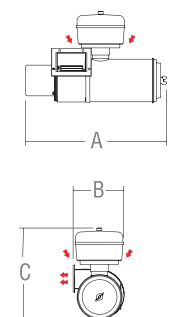
TDR7



TDR10



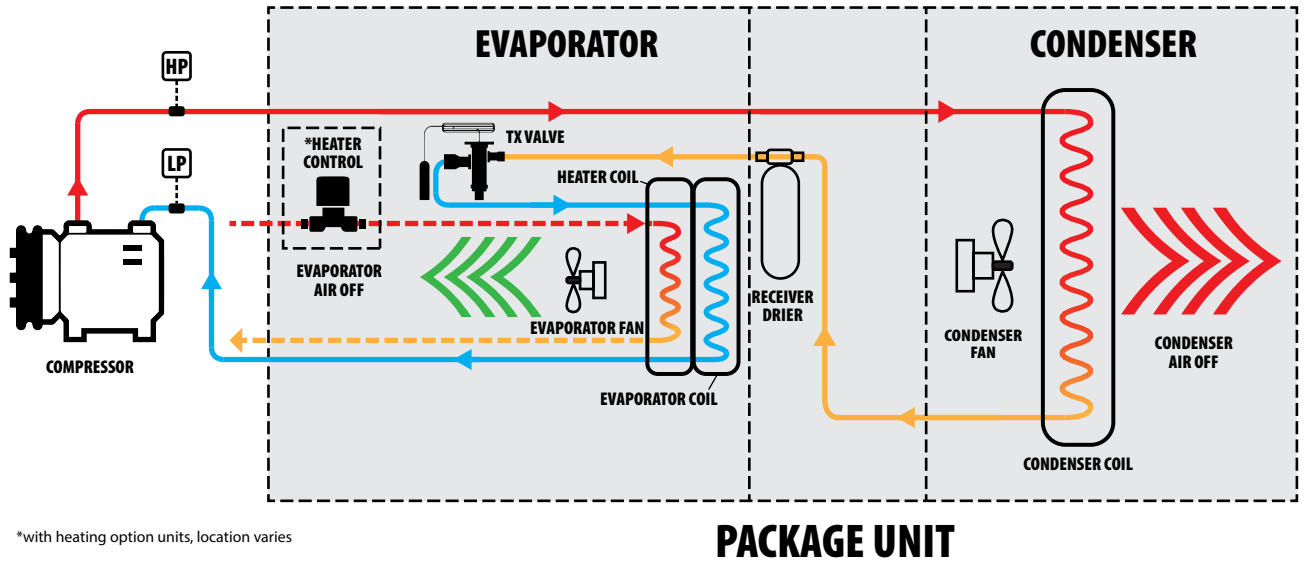
TPW10



FVW50



REFRIGERATION SCHEMATICS



*with heating option units, location varies

GENERAL MAINTENANCE SCHEDULE

3x **EVERY THREE MONTH OR 1200 HOURS** 1200Hr



• Check Condenser coil



• Check Condenser fan



• Replace motor brushes every 3 months or as required

12x **EVERY TWELVE MONTH OR 4800 HOURS** 4800Hr

In addition to above



- Check Condenser & Evaporator coil refrigeration connections against leakage
- Check coil support bolts



- Check main frame, panels & unit mounts, securing screws and catches



- Check Condenser, Evaporator and fresh air fan motor support clamps and screws
- Check shaft bearings and brushes for wear
- Check electrical connections



- Check Condenser, Evaporator fan for excessive noise during operation
- Check for blade damage
- Check securing screws.



- Check Compressor refrigeration connections against leakage
- Check securing bolts. Check mounting bracket
- Check for excessive noise during operation.



- Check control switches, thermostat electrical connections
- Check TX valve, Receiver drier & Refrigeration lines connections against refrigerant leakage
- Check supply air louvres for damage and cleanliness



- Check Compressor oil level.



- Check Thermostat & Refrigerant pressure switches settings



- Replace receiver drier and in line drier (if fitted)



- Complete system performance check ensuring correct refrigerant charge

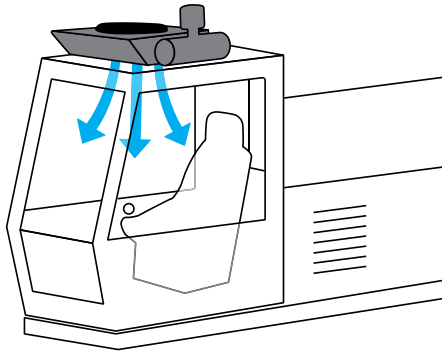
NOTE: All maintenance details provided are for general information only, this may vary according to the specific equipment/options. Contact SIGMA for more information.

PRODUCT RANGE

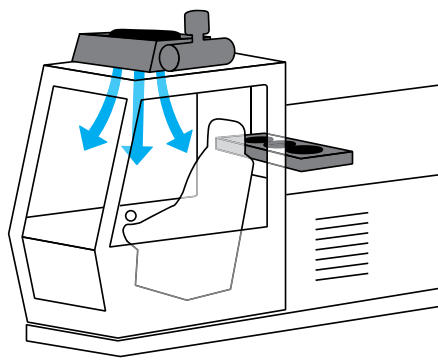
Model No.	TCF6	TCF7	TCF8BX2	TCF8BX6 H0235424	TCW5	TDR7BX2	TDR10BX2	TFC6BX1	TFC6BX2 H0095174	TFC8	TFF5	TFR6	TFR7	TPW10BX1 H0145650
Description	Rooftop Wallmount Condenser	Rooftop Condenser	Floor Mounted Condenser	Floor Mounted Condenser	Wall Mounted Condenser	Rooftop Packaged Evaporator & Condenser	Rooftop Packaged HVAC	Ceiling Evaporator with Heating	Rooftop Evaporator with Heating	Ceiling Evaporator	Floor Mounted Evaporator with Heating	Rooftop Evaporator with Heating	Rooftop Evaporator with Heating	Wall Mount Packaged HVAC
Cooling	6.0 kW 20472 BTU	7.0 kW 23884 BTU	8.0 kW 27296 BTU	8.0 kW 27296 BTU	4.0 kW 13648 BTU	7.0 kW 23884 BTU	10.0 kW 34120 BTU	6.0 kW 20472 BTU	6.0 kW 20472 BTU	8.0 kW 27296 BTU	5.0 kW 17060 BTU	6.0 kW 20472 BTU	7.0 kW 23884 BTU	10.0 kW 34120 BTU
Heating Capacity	- -	- -	- -	- -	- -	6.0kW 20472 BTU	10.0 kW 34120 BTU	6.0 kW 20472 BTU	7.0 kW 23884 BTU	8.0 kW 27296 BTU	4.0 kW 13648 BTU	4.5 kW 15354 BTU	6.0 kW 20472 BTU	- -
Fan Speeds	1	1	1	1	1	3	3	3	3	3	3	3	3	3
Air Flow	640 l/s 1 356 CFM	650 l/s 1377 CFM	980 l/s 2077 CFM	980 l/s 2077 CFM	500 l/s 1059 CFM	250 l/s 530 CFM	350 l/s 742 CFM	250 l/s 530 CFM	200 l/s 424 CFM	325 l/s 689 CFM	125 l/s 265 CFM	170 l/s 360 CFM	170 l/s 360 CFM	350 l/s 742 CFM
Fresh Air	- -	- -	- -	- -	- -	30 l/s 64 CFM	30 l/s 64 CFM	30 l/s 64 CFM	- -	30 l/s 64 CFM	10 l/s 21 CMF	30 l/s 64 CFM	30 l/s 64 CFM	100 l/s 212 CFM
Power Supply	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V
Current Draw	11 A	20 A	30 A	30 A	8 A	33.5 A	33A	10.5 A	13 A	30 A	6 A	13.5 A	13.5 A	43 A
Refrigerant	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a
*Minimum Ambient Temperature	0°C 32°F	0°C 32°F	0°C 32°F	0°C 32°F	0°C 32°F	0°C 32°F	0°C 32°F	0°C 32°F	0°C 32°F	0°C 32°F	0°C 32°F	0°C 32°F	0°C 32°F	25°C 77°F
Maximum Ambient Temperature	54°C 129°F	54°C 129°F	54°C 129°F	54°C 129°F	54°C 129°F	54°C 129°F	54°C 129°F	54°C 129°F	54°C 129°F	54°C 129°F	54°C 129°F	54°C 129°F	54°C 129°F	54°C 129°F
Weight (nominal)	35.0 kg 77.0 lbs	35.0 kg 77.0 lbs	50.0 kg 110.0 lbs	50.0 kg 110.0 lbs	17.0 kg 37.4 lbs	110.0 kg 242 lbs	220.0 kg 484 lbs	36.0 kg 79.2 lbs	26.0 kg 57.3 lbs	70.0 kg 154.0 lbs	30.0 kg 66.0 lbs	75.0 kg 165.0 lbs	80.0 kg 176 lbs	160.0 kg 352.7 lbs
Dimension (L x W x H) (B x A x C)	792mm x 515mm x 377mm	523mm x 856mm x 311mm	1236mm x 600mm x 294	1236mm x 600mm x 294	780mm x 400mm x 196mm	1100mm x 800mm x 288mm	148mm x 833mm x 650mm	743mm x 530mm x 210mm	735mm x 528mm x 190mm	1100mm x 900mm x 221mm	690mm x 441mm x 295mm	774mm x 600mm x 266mm	774mm x 600mm x 266mm	770mm x 500mm x 1550mm

*with heating (if option available) -10°C / 14°F

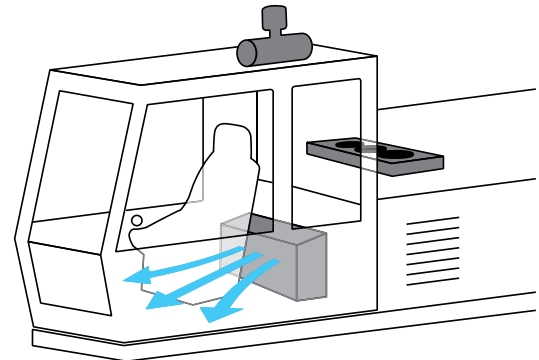
TYPICAL SYSTEM SETUP



ROOF MOUNTED PACKAGE



ROOF MOUNTED SPLIT



INTERNALLY MOUNTED
EVAPORATOR SPLIT SYSTEM

ALWAYS USE GENUINE SIGMA AUTHORISED PARTS ONLY



www.sigma-hvac.com

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