



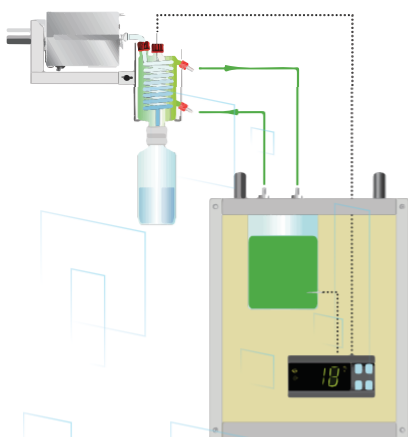
Closed Circuit Portable Chiller

ISOFROST³

MAIN CHARACTERISTICS

- ⊕ Extremely compact size;
- ⊕ Remote control by sampler;
- ⊕ Extreme ease of use;
- ⊕ High cooling performance;
- ⊕ Condensate temperature through external sensor;
- ⊕ Cooling liquid tank 18 lt;
- ⊕ Built-in recirculation pump;
- ⊕ Single control unit for controlling all parameters;
- ⊕ Probe heating option. Low coolant alarm sensor;
- ⊕ Connecting pipes for the coolant equipped with fast connections and thermal insulation.

Connection Layout Between ISOFROST 3 E MCS



ISOFROST 3 was born from the development of previous chiller systems ISOFROST and ISOFROST 2.

ISOFROST 3 is able to support multiple samplings in extreme environmental conditions (e.g. summer season). A magnetic drive recirculation pump is incorporated in the device and not takes up valuable space in the tub allowing simultaneous sampling of PCDD/F & PCBs and others (e.g. heavy metals, mercury).

The larger capacity tank contains the cooling coil able to keep the liquid at desired set-point.

If connected to the MCS condenser it can measure the gas temperature at the coil outlet.

ISOFROST 3 is made in a compact and robust stainless and aluminum steel case.

The small size and the practical handles make transportation, transport and lifting necessary to reach the sampling point, easier.

ISOFROST 3 allows you to change the temperature set point directly from the panel.

The evolution of the **TCR Tecora®** samplers integrates the automatic control of the cooling system through communication protocol even over long distances; this feature allows to have a save automatic and constant water tank and gas temperature monitoring.

The display of **TCR Tecora®** sampler recognizes ISOFROST 3 and saves in the report its functioning states, so any alarms can be addressed directly to the mobile device of the stack tester.



ISOFROST 3

Is manually and directly controlled can be remotely controlled by TCR Tecora® samplers by saving the log in the report sampling data.



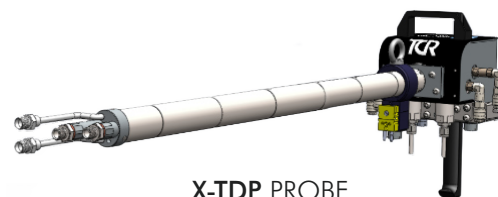


TCR Tecora® Quality
GUARANTEED

INTEGRATED OR SEPARATE SYSTEM

The samplers of TCR Tecora® can automatically directly manage the cooling temperature of the chiller and heating one of the sampling probe, integrating all the data into the report.

ISO FROST 3 is however capable to manage the heating of the box and the sampling probe in a stand-alone mode. This has been made possible through the research of the TCR Tecora® R&D Division and the work of its designers. Together they have created a new series of devices capable of interacting with each other through X-CONNECT technology which provides the property of being able to work passively and independently.



X-TDP PROBE



Samplers

BRAVO X
BRAVO DUO
EASY GAS PLUS
ISOSTACK G4



Chillers

ISO FROST 3
ISO FROST 3 HT



XAD2 MCS-X
CARTRIDGE

TECHNICAL CHARACTERISTICS

Cooling device nominal power	2610 BTU/hr > 765 W
Liquid tank capacity	18 liters
Cooling temperature set point	2°C (adjustable e.g. 0°C)
Ricirculation pump nominal flow	5.5 lt/min
Max prevalence liquid recirculation pump	6 meters
Operating conditions	-20°C* + 45 °C - 95% UR
Power supply	230 Vac 50-60Hz (110Vac)
Size	365 x 320 x 555 mm LxLxA
Communication protocol	RS-485
Weight	24 kg
Isofrost 3 Code	AC99-003-0012SP (0013SP - 110Vac)
Isofrost 3 Version with heaters for probe and box Code	AC99-003-0014SP (0015SP - 110Vac)

* for temperatures below 0°C is requested the use anti-freezing liquid