

# EXPLOSION PROOF PROCESS CHILLERS



## APPLICATIONS

Refineries	Laboratories
Chemical Plants	Process Analyzers
Petrochemical Plants	Cooling Flammable Liquids
Sample Analyzers	

## FEATURES

**Energy Saving Design:** Unlike most process chillers, compressor runs only as needed. Storage design provides close temperature control and safety from freeze-up without constant operation.

**Cooling Capacity:** Filtrine Model XP chillers are designed for heat loads ranging from 2,000–300,000 BTUH with outlet temperatures ranging from 0°F to 90°F.

**Complete Temperature Control:** Temperature adjustable within a range of 40° to 90°F (5° to 32°C) and will hold temperature within ±1.5°F (1°C) of setting. (.5°F optional).

**Welded Stainless Steel Cooling Tank:** Recirculates clean coolant sealed from the atmosphere, eliminates bacterial build-up and internal corrosion.

**Uses HFO Refrigerant:** Eliminates use of ozone-depleting and high GWP (Global Warming Potential) refrigerant as per Montreal Protocol.

Filtrine process chillers with the EXPLOSION PROOF (XP) option are manufactured to ensure that no spark will be released from the electrical components of the chiller that could ignite gases, dusts or chemicals that may be present in the specified areas.

Filtrine uses specially designed enclosures, motors, switches and other electrical components which are connected by special wiring conduits.

**Filtrine offers three types of chillers that can be made explosion proof. Choose from:**

- PCP – CLOSED LOOP CHILLER
- POC – OPEN LOOP CHILLER
- PC – ONE PASS CHILLER

All Filtrine Model XP chillers are built with UL or CSA listed components designed for the following classifications:

- **NEMA Class I, Group D, Div 1 or 2**
- **Other groups available: Groups B and C**

Due to the custom nature of Filtrine chillers, third party certification of the entire package is only available upon request and can be tested at the factory after fabrication or in the field. Only an independent laboratory recognized as a Nationally Recognized Testing Lab (NRTL) by the Occupational Safety and Health Administration (OSHA) can certify Filtrine equipment. These certifications might include UL, CSA, ATEX or IEC/CENELEC. *Consult the factory for exact requirements.*

**Many other Filtrine chiller options are available, including:**

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| <ul style="list-style-type: none"> <li>• <b>HIGH AMBIENT DESIGN</b><br/>For temperatures up to 110°F or 120°F</li> <li>• <b>LOW AMBIENT CONTROLS</b><br/>For temperatures down to minus 20°F</li> <li>• <b>WEATHER-RESISTANT</b><br/>For outdoor installation</li> <li>• <b>ANTI-CORROSION COATINGS</b><br/>On the condenser</li> <li>• <b>WATER COOLED CONDENSER</b></li> <li>• <b>SEA WATER COOLED CONDENSER</b></li> <li>• <b>ALL COPPER CONDENSER</b></li> <li>• <b>STAINLESS STEEL CABINET</b></li> <li>• <b>SPECIAL PAINTS &amp; CUSTOM COLORS</b></li> </ul> | <ul style="list-style-type: none"> <li>• <b>WORLDWIDE VOLTAGES AVAILABLE</b></li> <li>• <b>EXTRA STORAGE CAPACITY</b></li> <li>• <b>LOW DISCHARGE LIQUID TEMPERATURE</b><br/>For temperature down to 0°F</li> <li>• <b>SEPARATE INTERNAL HEAT EXCHANGER</b><br/>For cooling corrosive chemicals or hot liquids</li> <li>• <b>OTHER OPTIONS ARE AVAILABLE</b><br/>Refer to Filtrine <i>Options &amp; Accessories</i> Engineering Bulletin or visit <a href="https://www.filtrine.com/chillers/options-and-accessories">https://www.filtrine.com/chillers/options-and-accessories</a></li> </ul> |
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### START-UP and FIRST YEAR SERVICE

FILTRINE Mfg. Co. provides start-up and first year service on all parts and labor. Regular maintenance on a yearly contract basis is a wise investment and will prevent costly downtime.

### WARRANTY

All parts are covered FOB jobsite for (12) months from the start date or (15) months from date of shipment or whichever comes first.

### SERVICE MAKES THE DIFFERENCE

Recognizing that downtime on critical medical equipment is unacceptable, Filtrine has established a national network of qualified service technicians, selected because of their extensive experience working on medical equipment chillers and their location within the "Emergency Response Zone" (approximately 40 miles). This expert and quick service is available on an 8/5 or 24/7 basis for all Filtrine medical chillers and heat exchangers.