

TRANE/FILTRINE CHILLER - ELEKTA LINEAR ACCELERATOR



TYPICAL CHILLER SHOWN

FEATURES

- Uses HFO "Ozone Safe - Low GWP" refrigerant
- Optional anodized aluminum and stainless steel exterior for a lifetime of service
- "Space Saving Design" SSD Models Available
- "Low Profile" LP Model Available

DESCRIPTION

A closed loop, packaged chiller designed specifically to cool **ELEKTA LINEAR ACCELERATOR**, to recirculate a clean coolant at a constant temperature, pressure and flow. Ideal for all installations where a dependable source of clean cooling water is not available.

Filtrine PCP chillers use a storage-type cooling tank, with immersion coil evaporator, to provide close temperature control of recirculating coolants. The tank is sealed to prevent coolant evaporation or fouling, and supplied with a liquid level gauge, fill port and clean out. The pump recirculates the coolant at a constant temperature, pressure and flow.

AVAILABLE IN FIVE STANDARD CONFIGURATIONS

A: Self-contained air cooled model should be installed in a well ventilated room. **W:** Water cooled model may be installed in a nonventilated room but requires a source of condenser cooling water. **AR:** Remote air cooled model may be installed in a nonventilated area with the condenser mounted outdoors. **A-WP:** Weather-resistant model would be installed completely outdoors. **ARC:** Evaporator and pump installed indoors with outdoor refrigeration system. Glycol free.

**ENERGY SAVING OPTIONS AVAILABLE
CONSULT FACTORY**

MODEL..... TPCP-300G-44

SPECIFICATIONS:

Cooling Capacity:

Btu/hr 40,944

Watts 12,000

Rating Conditions:

Coolant Discharge Temperature 63°F [17°C]

Ambient Air Temperature 90°F [32°C]

Condensing Unit: Compressor HP 3

Description: Lifetime lubricated scroll compressor with condenser as specified [see options below] supplied with high/low pressure stat, pump-down solenoid valve, head and suction gauges, thermostatic expansion valve, refrigerant sight glass and dehydrator.

Condenser Options [see back for further details]:

A Self-contained air cooled condenser

W Water cooled condenser

AR Remote air cooled condenser

A-WP Weather-resistant for outdoor installation

ARC Split system w/remote air cooled condensing unit

Cooling Tank & Evaporator: Capacity 30 gal [114 ltr]

Construction: Welded stainless steel shell with stainless steel immersion coil evaporator. Tank tested at 250# for 125# working pressure, supplied with drain connection and insulated with closed cell thermo-elastomer with an R factor of 3.7.

Pump: Motor HP 3/4

Capacity 8 GPM @ 45 PSI [30 lpm @ 3 bar]

Description: Bronze fitted turbine pump mounted on a rubber pad over a stainless steel condensation tray and supplied with unions and service valves and a pressure relief bypass valve. All piping and fittings brass, copper or bronze, and insulated with closed cell thermo-elastomer with an R factor of 3.7.

Adjustable Differential Thermostat: 40° to 90°F [4° to 32°C]

Temperature Stability ±1.5°F [0.8°C]

Cabinet: 18 gauge painted steel panels on a welded angle iron frame. Panels removable without tools for access to all components.

Supply Power: 208-230/60/3 or 460/60/3

Full Load Amps 15 or 8

NOTE: FLA may vary depending on options. See MCA and MOP ratings on nameplate of as-built unit

Plumbing Connections In & Out 3/4" [19 mm] MPT

Decibel Rating [nominal at 5 ft.] 74dBA

Shipping Weight Chart on reverse

"FAIL SAFE" OPTIONS [Designated by suffix]

DPA DUAL PUMPS: Automatic switchover to backup pump on loss of coolant flow.

LL LOW LEVEL INTERLOCK: Float switch in tank lights a warning light if coolant level drops below safe low limit.

LF LOW FLOW INTERLOCK: Flow switch lights a warning light if flow rate drops below safe low limit.

HT HIGH TEMPERATURE INTERLOCK: Thermostat lights a warning if coolant temperature rises above safe high limit.

AS AUTOMATIC SWITCHOVER TO CITY WATER: In case of pump or compressor failure, city water switchover solenoids are activated to allow for temporary cooling using city water.

CHILLER DIMENSIONS & WEIGHTS

FILTRINE MODEL No.	W		D		H		SHIP WT	
	in	cm	in	cm	in	cm	lb	kg
TPCP-300G-44-A	62	157	32	81	48	122	1400	630
TPCP-300G-44-W	62	157	32	81	48	122		
TPCP-300G-44-AR	62	157	32	81	48	122		
TPCP-300G-44-A-WP	78	198	32	81	70	178		
TPCP-300G-44-WP-LP*	82	208	62	157	44	112		
TPCP-300G-44-A-SSD**	34	86	28	71	78	200		
TPCP-300G-44-W-SSD**	34	86	26	66	72	184		
TPCP-300G-44-AR-SSD**	34	86	26	66	72	184		

*Low profile, weather-resistant unit for installation on rooftop.

NOTE: Airflow and water connection locations on low profile units vary from standard WP models. Contact factory for details.

**Space Saving Design.

NOTE: Chiller dimensions and shipping wts. may vary depending on options.

STANDARD CONDENSER OPTIONS

A SELF-CONTAINED AIR COOLED CONDENSER

With a lifetime lubricated welded hermetic compressor.

W WATER COOLED CONDENSER

Same specifications as self-contained air cooled models with water cooled condenser for hookup to city or tower water.

AR REMOTE AIR COOLED CONDENSER

Same specifications as self-contained air cooled models but with weather-resistant air cooled remote condenser furnished separately for mounting outdoors in ambients up to 100°F [38°C]. For higher ambients, see HA options. Consult factory for condenser specifications.

A-WP WEATHER-RESISTANT FOR OUTDOOR INSTALLATION

Same specifications as self-contained air cooled models, but packaged for outdoor installation. *Not available in space-saving design models.*

A-WP-LP WEATHER-RESISTANT FOR OUTDOOR INSTALLATION-LOW PROFILE

Same specifications as weather-resistant model above but in low profile design for mounting on roof.

GLYCOL-FREE CONDENSER OPTIONS

ARC REMOTE AIR COOLED

Split system, indoor evaporator and pump with remote air cooled condensing unit for outdoor installation.

STANDARD OUTDOOR AMBIENT OPERATING CONDITIONS

-20°F to 100°F [10° to 38°C]

OPTIONAL OUTDOOR AMBIENT OPERATING CONDITIONS

Up to 120°F [49°C]

NOTE: Higher ambient options may affect unit dimensions.

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.

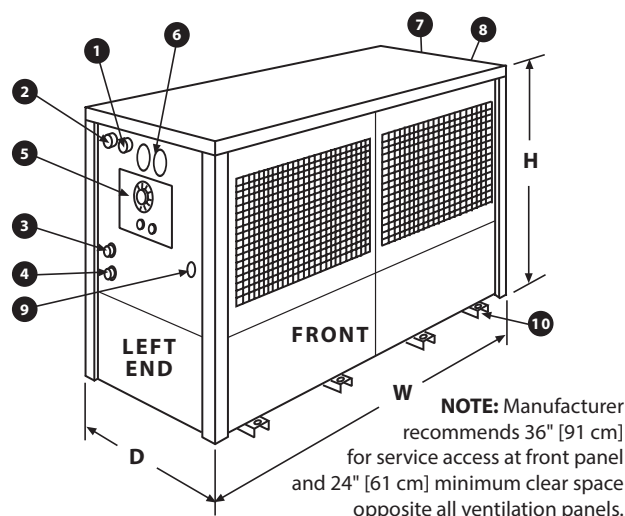
WARRANTY

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

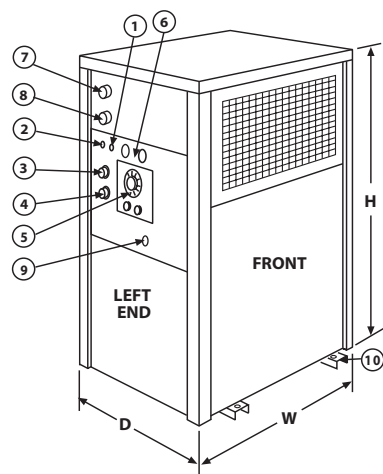
Recognizing that downtime on critical medical equipment is unacceptable, Filtrine has established a national network of qualified service technicians, selected because of their extensive experience working on medical equipment chillers and their location within the "Emergency Response Zone" (approximately 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.

STANDARD MODELS Suffix: A, W, AR & A-WP



NOTE: Manufacturer recommends 36" [91 cm] for service access at front panel and 24" [61 cm] minimum clear space opposite all ventilation panels.

SPACE SAVING DESIGN [SSD] MODELS Suffix: A-SSD, W-SSD & AR-SSD



LEGEND

- | | |
|----------------------|--------------------------------------|
| 1. AirVent | 7. To Remote Condenser [AR models] |
| 2. Fill Port | Condenser Water Out [W models] |
| 3. Coolant Return | 8. From Remote Condenser [AR models] |
| 4. Coolant Discharge | Condenser Water In [W models] |
| 5. Control Panel | 9. Electrical Connection |
| 6. Gauges | 10. Channel Skids |

VENTILATION PANELS

Standard A & WP models: air intake at rear, air discharge out front and right end. LP models: air intake rear, air discharge out both ends and top.

REMOVABLE SERVICE PANELS

Front and rear on all models.

CHANNEL SKIDS

Channel skids project 2" [5 cm] front and rear. Center of mounting holes located 6" [15 cm] from chiller end and 1" [2.5 cm] from chiller edge front and rear.

NOTE: Drawings are composites of various models to demonstrate plumbing locations. Confirm footprint with factory.

All information given on this bulletin is for general use only. Confirm specifications with factory for your specific requirement.