CHILLER - ELEKTA LINEAR ACCELERATOR

TYPICAL CHILLER SHOWN

MODEL..... PCP-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 nameplace 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.

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-reistant model would be installed completely outdoors. **ARC:** Evaporator and pump installed indoors with outdoor refrigeration system. Glycol free.

ENERGY SAVING OPTIONS AVAILABLE
CONSULT FACTORY

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MADE IN USA

FILTRINE IS ISO 9001:2015 CERTIFIED
PRODUCT LINE APPROVED MARK AVAILABLE

608-3SL2
[PCP-300G-44]
REV. 03.03.21

CHILLER DIMENSIONS & WEIGHTS								
FILTRINE MODEL No.	W		D		H		SHIP WT	
	in	cm	in	cm	in	cm	lb	kg
PCP-300G-44-A	62	157	32	81	48	122	1400	630
PCP-300G-44-W	62	157	32	81	48	122		
PCP-300G-44-AR	62	157	32	81	48	122		
PCP-300G-44-A-WP	78	198	32	81	70	178		
PCP-300G-44-WP-LP*	82	208	62	157	44	112		
PCP-300G-44-A-SSD**	34	86	28	71	78	200		
PCP-300G-44-W-SSD**	34	86	26	66	72	184		
PCP-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 100ºF [38ºC]. 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
-20ºF to 100ºF [10º to 38ºC]

OPTIONAL OUTDOOR AMBIENT OPERATING CONDITIONS
Up to 120ºF [49ºC]

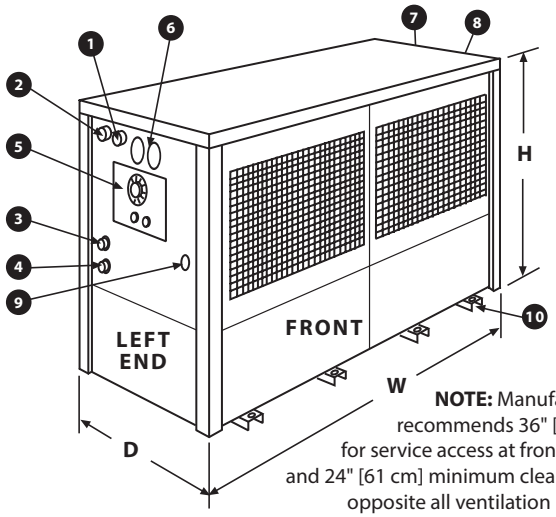
NOTE: Higher ambient options may affect unit dimensions.

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.

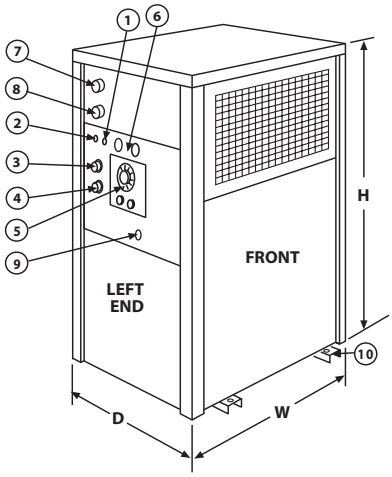
SERVICE MAKES THE DIFFERENCE
Recognizing that downtime on critical medical equipment is unacceptable, Filtrine has established a national network of qualified service technicians, selected because of their extensive experience working on medical equipment chillers and their location within the "Emergency 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**
2. **Fill Port**
3. **Coolant Return**
4. **Coolant Discharge**
5. **Control Panel**
6. **Gauges**
7. **To Remote Condenser [AR models] Condenser Water Out [W models]**
8. **From Remote Condenser [AR models] Condenser Water In [W models]**
9. **Electrical Connection**
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.

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