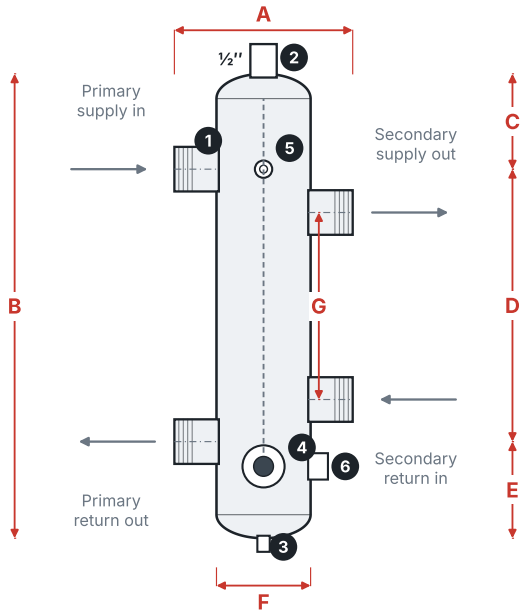
SUBMITTAL DATA

LLH100MU

Hydraulic separator with dirt magnet

JOB NAME	JOB LOCATION	ENGINEER
MECHANICAL CONTRACTOR	CONTRACTOR'S P.O. NO.	REPRESENTATIVE
TAG NO.	QUANTITY	APPROVAL

DIMENSIONS



APPLICATION

The LLH100MU hydraulically separates the primary (boiler or chiller) circuit from the secondary (system) circuit so each pump runs without disturbing the other, and removes air, dirt and ferrous particles in the same vessel. Water slows down in the large body; air rises to the automatic vent, dirt settles to the drain, and magnetite is held on the dirt magnet.

DIMENSIONS, MM / IN

	A	B	C	D	E	F	G
mm	144	375	77	220	78	76	151
in	5.7	14.8	3.0	8.7	3.1	3.0	5.9

A Width across the connection faces · **B** Overall height of the vessel · **C** Top of vessel to upper connections · **D** Between upper and lower connections · **E** Lower connections to bottom of vessel · **F** Vessel outside diameter · **G** Between secondary connections. Heights exclude the air vent, drain valve and fittings.

CONNECTIONS

#	Port	Size and type
1	Primary and secondary connections (4)	G1¼″ union with 1″ press, sweat or FNPT tail
2	Air vent port	½″ GM
3	Drain	½″ GM
4	Dirt magnet port	dry well with removable rod
5	Gauge port	¼″ FNPT
6	Fill / makeup water port, on the side (expansion tank or system fill)	½″ FNPT

TECHNICAL DATA

Flow at 4 ft/s	12 gpm (2.7 m³/h)
Pressure drop at 4 ft/s	0.39 ft primary / 0.36 ft secondary
Max. operating pressure	150 psi (10 bar)
Operating temperature	32–210 °F (0–99 °C)
Fluids	Water, up to 50 % glycol
Body and internals	304 stainless steel
Coalescing element	Stainless expanded-metal web, 7 mm diamonds
Dirt magnet	M50 neodymium rod, 12,000 gauss, in dry well
Weight	6 lb (2.7 kg)
Water volume	approx. 0.4 US gal
Warranty	2 years

TYPICAL SPECIFICATION

Furnish and install a Rhella LLH100MU hydraulic separator, or approved equal, selected for 12 gpm (4 ft/s connection velocity). The separator shall combine hydraulic separation of the primary and secondary circuits with air, dirt and ferrous-particle removal in one vessel. The vessel shall be 304 stainless steel with G1¼″ union with 1″ press, sweat or FNPT tail primary and secondary connections, internal stainless steel mesh web (expanded metal, 7 mm diamond openings) dividing the primary and secondary halves, an automatic air vent at the top, a drain at the bottom, a fill port, and a removable 12,000 gauss neodymium rod magnet in an external dry well. Maximum working pressure 150 psi; working temperature 32–210 °F; suitable for water and glycol solutions up to 50 %.