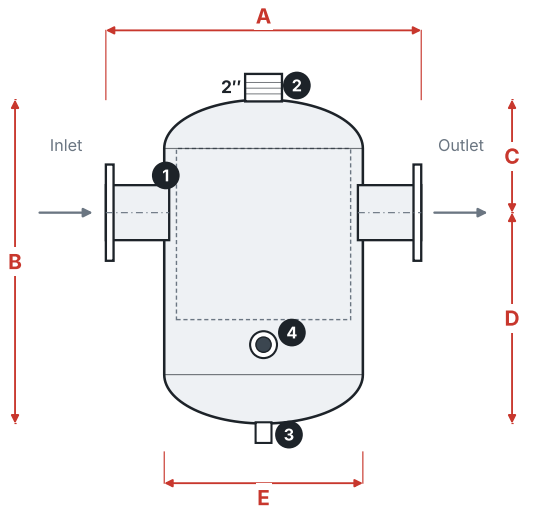
SUBMITTAL DATA

AIR300P

Air and dirt separator with dirt magnet

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

DIMENSIONS



APPLICATION

The AIR300P removes entrained air, micro-bubbles, dirt and ferrous particles from closed heating and cooling systems. Water slows down in the body and passes through the coalescing medium; bubbles merge and rise 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
mm	516	530	185	345	325
in	20.3	20.9	7.3	13.6	12.8

A Width across the connection faces · **B** Overall height of the vessel · **C** Top of vessel to connection centerline · **D** Connection centerline to bottom of vessel · **E** Vessel outside diameter. Heights exclude the air vent, drain valve and fittings.

CONNECTIONS

#	Port	Size and type
1	Inlet and outlet connections (2)	3″ ASME B16.5 Class 150 flange
2	Air vent port	2″ GF
3	Drain	1″ MNPT
4	Dirt magnet port	dry well with removable rod
–	Purge port	½″ FNPT

TECHNICAL DATA

Flow at 4 ft/s	110 gpm (24.9 m³/h)
Pressure drop at 4 ft/s	0.55 ft
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	Ø25 mm stainless Pall rings in a wire basket
Dirt magnet	M50 neodymium rod, 12,000 gauss, in dry well
Weight	67 lb (30.4 kg)
Water volume	approx. 10.0 US gal
Warranty	2 years

TYPICAL SPECIFICATION

Furnish and install a Rhella AIR300P air and dirt separator, or approved equal, selected for 110 gpm (4 ft/s connection velocity). The separator shall remove entrained air, micro-bubbles, dirt and ferrous particles in one vessel. The vessel shall be 304 stainless steel with 3″ ASME B16.5 Class 150 flange inlet and outlet connections, internal a Ø285 × 280 mm stainless steel wire basket filled with Ø25 mm 304 stainless steel Pall rings acting as coalescing medium, an automatic air vent at the top, a purge port, a drain at the bottom, and a removable 12,000 gauss neodymium rod magnet in a dry well. Maximum working pressure 150 psi; working temperature 32–210 °F; suitable for water and glycol solutions up to 50 %.