

Type JP604 Balance Tank Set Flanged

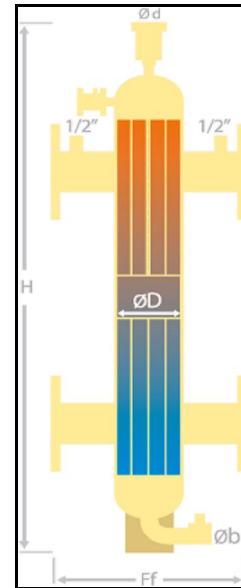
Specification Balance Tank complete with Air & Dirt Separator consisting of Carbon Steel body with Stainless Steel diffuser screen. RAL 9006 white aluminium paint finish. Flanges drilled to BS4504 NP16.

Application Stourflex air and dirt separators are designed to remove both air and dirt from circulating heating and chilled water systems. Air is vented automatically from the top of the unit, dirt, sludge and solid particles are drained manually from the valve fitted on the base.

In addition the JP604 balances the differences in volumetric flow between primary (flow) and secondary (return) systems, i.e. if the demand is greater than the supply some of the return water will merge with the supply, if however the supply is greater than the demand some of the supply water will join the return. This will produce an energy saving by encouraging the pumps or chillers to shut off or slow down in areas of the system with low or no requirements, to accomplish this the flow rates of different circuits must be independent, the flow from one must not affect the flow from another, this is known as hydraulic separation.

Maximum working temperature 110°C.
Maximum working pressure 10 Bar.
Maximum test pressure = 13 Bar.

The JP604 Balance Tank Set should be sized according to the maximum flow rate at the inlet i.e. line size for the flow or return whichever is greatest.



Part Number	N.B. (mm)	ØD (mm)	H (mm)	Øb (")	Ff	Recommended Flow Rate m ³ /h
JP604-50(4)	50	114	950	1	440	4
JP604-65(8)	65	165	1180	1	485	8
JP604-80(10)	80	219	1440	1 ¼	550	10
JP604-80(15)	80	219	1640	1 ¼	550	15
JP604-100(20)	100	273	1715	1 ½	610	20
JP604-100(25)	100	273	1815	1 ½	610	25
JP604-125(30)	125	323	1990	1 ½	665	30
JP604-125(40)	125	323	2090	1 ½	665	40
JP604-150(50)	150	323	2190	1 ½	665	50
JP604-200(60)	200	400	2400	2	755	60
JP604-200(75)	200	400	2500	2	755	75
JP604-200(100)	200	450	2605	2	805	100
JP604-250(150)	250	550	3100	2	920	150
JP604-300(200)	300	600	3640	2	990	200

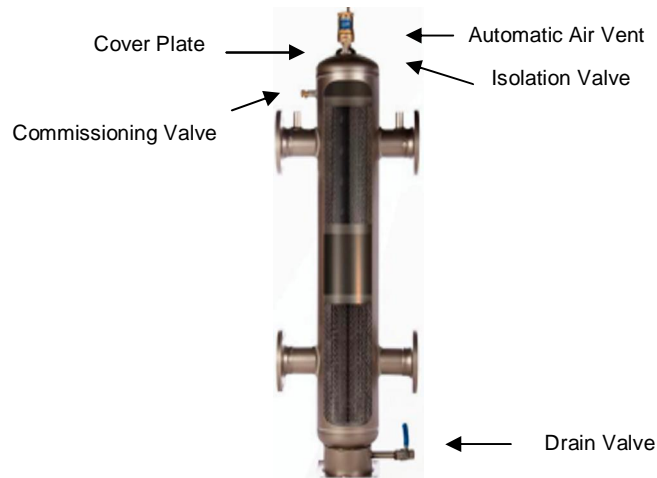
All lengths have a tolerance of up to +/- 5%

½" bsp brass automatic air vent, isolation and commissioning valves supplied as standard along with 1" bsp drain valve.

Please refer to installation instructions for the correct location, installation and operation of the JP604 Balance Tank Set.

Weld and grooved ends, alternative flange drillings and materials available upon request.

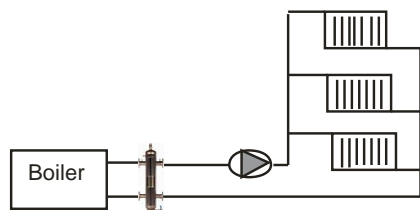
Installation, Operation and Maintenance Instructions For JP603 Air and Dirt Separators



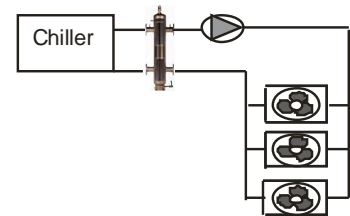
Location Inlet and outlet connections to the primary and secondary circuits to be on the same side of the unit.

Balance Tank Sets are to be installed between primary and secondary piping circuit, as close to the boiler as possible.

For automatic air vents in ceiling spaces or concealed locations, provide vent tubing to nearest drain.



Heating System



Cooling System

Installation Automatic air vent and isolation valve should be fitted to the top of the separator, commissioning valve on the side and drain valve on the base, as shown in the illustration at the top of this page.

To protect the automatic air vent the isolation valve should be closed prior to flushing the system. The commissioning valve is used to quickly remove air when filling the system. Flexible hose or fixed pipework should be installed to enable dirty water to be drained to a convenient safe place.

Maintenance Automatic air vent should be checked periodically to ensure it is functioning correctly. To prevent sediment build up and maintain efficiency the separator should be flushed at regular intervals. Dirt sludge and solid particles can be removed by opening the drain valve on the base of the separator until the water runs clear.

WARNING To prevent scalding safe practice must be observed when venting hot water at pressure.