

PremierPlus

Safety

The high strength Duplex stainless steel cylinder is manufactured using stringent quality control procedures and is pressure tested to over 1½ times its maximum operating pressure. All PremierPlus units have fully integrated thermostatic controls and thermal cut outs for both direct and indirect heating. A higher level of thermal safety is provided by the factory fitted temperature and pressure relief valve.



Cold Water Controls

An integrated cold water control set, exclusively designed for the PremierPlus, and comprising pressure reducing valve and strainer, expansion relief valve and check valve reduces installation time by incorporating three components into one and gives significant improvements in flow rate across a range of inlet pressures.



Guarantee

The use of high grade Duplex stainless steel means that the PremierPlus comes with a 25 year on-site parts and labour guarantee for the cylinder. The expansion vessel and the cold water controls have a 5 year on-site parts and labour guarantee and all other valves and fittings supplied with the unit are covered for a period of 2 years.

PremierPlus Heating, Re-Heating and Draw-Off Performance

Indirect units using primary heating coil							Indirect units using element only
Model	Primary flow (ltrs/min @ 80°C+/-2°C)	Heat up time from cold through 45°C (mins)	Recovery time for 70% draw-off (mins)	Hot water draw-off (ltrs)*	% capacity available as hot water	Coil output (kW)**	Heat up time from cold through 45°C (mins)†
PP100B	15	24.5	18	92	92	11.8	94.5
PP120B	15	27	22	107	89	12.5	115.5
PP150B	15	27	21	141	94	16.4	147
PP170B	15	30	24	153	90	16.0	168
PP210B	15	34	26	198	94	18.3	210
PP250B	15	38	27	238	95	20.0	252
PP300B	15	45	33	285	96	20.0	304

*Hot draw-off rate 10 l/min
 **Coil output based on kW = litres heated x temp rise/time to heat from cold x 14.3
 †Assumes 3kW @ 240V available. Heating times would be extended at 230V input

Direct units using lower element only				
Model	Heat up time from cold through 45°C (mins)††	Recovery time for 70% draw-off (mins)	Hot water draw-off (ltrs)	% capacity available as hot water
PP100E	99	68	92	92
PP120E	121	83	107	89
PP150E	152	105	141	94
PP170E	173	120	153	90
PP210E	215	150	198	94
PP250E	257	183	238	95
PP300E	310	220	285	96

††Assumes 3kW @ 240V available
 Heating times would be extended at 230V input

Standing Heat Loss

When comparing heat loss figures between brands it is essential that the heat loss is calculated on the same basis for each brand. To enable a fair comparison we publish two sets of figures resulting from the two different tests which are widely used in our industry. The first test is with the temperature and pressure relief valve fitted and the second test is with the valve removed and replaced by a blanking plug. Santon recommends that you check the tests used by other brands before making a comparison.

Heat Loss per day		
Capacity (litres)	With T & P valve fitted (kWh/24h)	Without T & P valve fitted (kWh/24h)
100	1.14	0.94
120	1.25	1.09
150	1.45	1.28
170	1.63	1.32
210	1.91	1.65
250	2.22	1.95
300	2.52	2.34