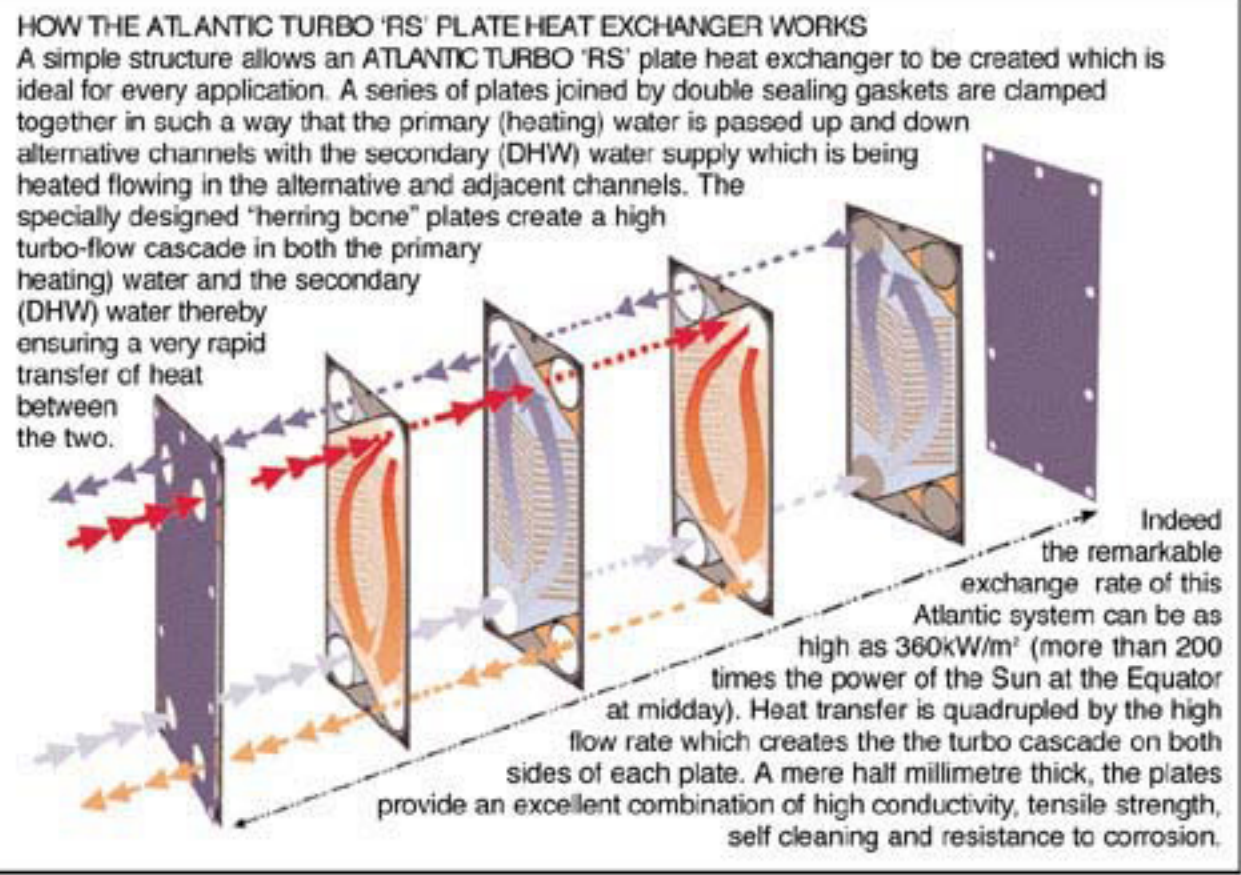


- Extremely compact
- Reliable hygienic hot water
- Easy to extend
- Avoids most scale build-up
- Low cost

The ATLANTIC TURBO RS and RSC plate heat exchangers can be used independently or in conjunction with an ATLANTIC insulated storage vessel. These are ex-stock in 300 and 500 litre capacities. Limited hot water storage can be beneficial to act as a buffer against extreme peak demands over a short period. Generally this allows the use of a smaller plate heat exchanger and less boiler power with the consequent advantage of lower costs.



PERFORMANCE		ATLANTIC TURBO RS AND RSC										
Domestic hot water conditions; 10degC inlet, 60degC outlet												
RS primary heating conditions; 80degC in, 55degC out												
RSC primary heating conditions; 80degC in, 40degC out												
MODEL	55	55C	116	116C	174	174C	232	232C	348	348C		
OUTPUT kW	55	55	116	116	174	174	232	232	348	348		
'000 Btu/hr	188	188	396	396	594	594	792	792	1187	1187		
Plates number	9	17	15	13	21	19	27	25	41	37		
Heating Flowrate l/sec	0.5	0.3	1.1	0.7	1.7	1.1	2.3	1.4	3.4	2.1		
Resistance kPa	22	3	31	31	34	31	35	31	33	31		
Domestic Flowrate l/sec	0.3	0.3	0.6	0.6	0.8	0.8	1.1	1.1	1.7	1.7		
Resistance kPa	2	2	10	10	22	22	22	22	22	22		
Weight kG	29	32	31	50	33	54	44	57	49	79		
Water content litres	0.7	1.4	1.3	2.3	1.8	3.4	2.3	4.6	3.6	6.6		



RULE OF THUMB GUIDE TO EX-STOCK RS TURBOFLOW PLATE HEAT EXCHANGERS AND BUFFER VESSELS (based on CIBSE and other sources)															
RS kW	55	55	55	116	116	116	174	174	174	232	232	232	348	348	348
BUFFER VESSEL ltrs	-	300	500	-	300	500	-	300	500	-	300	500	-	300	500
†based on number of bathrooms	‡based on number of beds			§based number of occupants			¶based on covers per sittings								
**HOTEL †	3	20	35	23	45	52	34	65	72	46	80	90	69	103	125
***HOTEL †	3	16	28	17	34	39	25	49	54	34	60	67	51	77	94
APARTMENT †	3	20	35	23	45	52	34	65	72	46	80	90	69	103	125
STUDENT/CONF FACILITY †	3	16	28	17	34	39	25	49	54	34	60	67	51	77	94
STUDENT FAC ‡	7	15	21	21	30	35	35	45	48	48	55	58	72	80	85
LEISURE CENT ‡	5	9	12	12	16	18	18	22	24	24	28	30	36	40	42
HOSPITAL WARD ‡	3	16	28	17	34	39	25	49	54	34	60	67	51	77	94
ELDERLY FACILITY ‡	3	20	35	23	45	52	34	65	72	46	80	90	69	103	125
TEACHING FACILITY §	120	585	725	340	940	1140	510	1170	1470	680	1390	1730	1020	1770	-
OFFICES §	150	500	680	320	705	920									
RESTAURANT ¶	330	1150	1275	700	1905	2180									

**GENERAL DESCRIPTION**  
 The ATLANTIC TURBO 'RS' and 'RSC' plate heat exchanger comprises three essential components; the plates, the gaskets and two end frames - one fixed to the pipework and one free. They are very simple to expand and to maintain with all this work being achieved simply by removing only the free end frame. Once the bolts have been removed, the end frame and plates can slide along the guides, more plates can be added or the unit can be cleaned. On reassembly, overtightening or too little pressure is simply avoided by calculating the distance required between the end frames by multiplying the number of plates by a standard thickness factor.

**PLATES** All the 'herring bone' pattern plates are made from austenitic 316L stainless steel or other higher grade materials. In addition to creating the unique turbo flow cascade, the herring bone pattern also makes each plate a firm bed for the gaskets thus ensuring a total water seal.

**DOUBLE SEAL GASKETS**  
 In addition to completely sealing adjacent plates, the gaskets also control the water flows through the alternative channels ensuring that the primary water and the secondary water follow their own separate paths and do not intermix at any stage.

**BOLTS, NUTS and WASHERS:** All manufactured from galvanised steel.  
**END FRAMES** Manufactured from smooth steel plate between 10 and 30mm thick depending upon the size of the unit and finished in blue epoxy enamel.

**NOTE**  
 Heating operating pressure: Up to 16 bar  
 Heating working temperature: Up to 150° C  
 Domestic hot water pressure: Up to 16 bar  
 Domestic hot water temperature: All standard requirements