



PR - Fresh water station with plate heat exchanger and thermal store

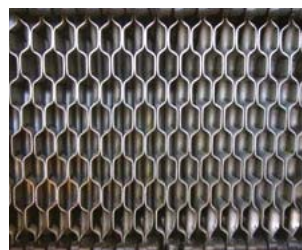
Fresh water station designed for the production and storage of domestic hot water (DHW). It is composed by a buffer store (available in AISI 316L stainless steel or glass lined) and an external heat exchanger kit. The buffer store comes with an inspection hatch that can be also used to equip the cylinder with an immersion heater or a with a removable heat exchanger. The heat

exchanger kit is composed by a plate heat exchanger with AISI 316 stainless steel plates and NBR gaskets, a circulation pump, a thermostat and all the connections fittings. The heat exchanger is gasketed and it can be dismantled for maintenance operations. The heat exchanger kit is not supplied assembled to the cylinder.

HEAT SOURCE



APPLICATION



TECHNICAL FEATURES

DHW cylinder

Heat exchanger kit

General features

	PRX	PRV
Material	AISI 316L Stainless steel (1.4404)	Glass lined S 235 Jr Carbon steel
Internal protective treatment	Pickling and passivation	Enamelling according to DIN 4753.3
External protective treatment	Pickling and passivation	Anti rust protection + epoxy painting
Rating (P max. / T max.)	6 bar / 95 °C	8 bar / 95 °C
Cathodic protection	Magnesium anode	Magnesium anode
Plates material	AISI 316L Stainless steel (1.4404)	
Plates protective treatment	Pickling and passivation	
Frame	Painted carbon steel and galvanized tie rods	
Type	Gasketed plates	
Rating (P max. / T max.)	10 bar / 130 °C	
Capacity	200 - 2000 L	
Warranty	5 years (DHW cylinder), 2 years (hydraulic components), 1 year (electric parts)	
Insulation	- Rigid polyurethane foam + PVC: Fire retardant class B3 (DIN 4102) - Soft polyester + PVC: Fire retardant class B2 (DIN 4102)	
In compliance with	- Pressure Equipment Directive (PED) 2014/68/UE Art. 4 Para 3 - Italian MOH specifications (products suitable to contain potable water) - Energy related Products (Erp) Directive 2009/125/CE	

ACCESSORIES (page 218)



Impressed current electronic anode



Thermometer



1 1/2 electric immersion heater



Heat exchanger kit with brazed plate heat exchangers

PR - Hard insulation with rigid polyurethane foam and PVC jacket

STAINLESS STEEL BUFFER	GLASS LINED BUFFER	INSULATION THICK. (mm)	ErP CLASS	HEAT LOSS S (W)	REAL CAPACITY (L)	HEAT EXCHANGER TYPE *
PRX 0020035 R	PRV 0020035 R	50	C	62,2	191,2	T4B6N/08
PRX 0020070 R	PRV 0020070 R	50	C	62,2	191,2	T4B6N/12
PRX 00200116 R	PRV 00200116 R	50	C	62,2	191,2	T4B6N/20
PRX 00200151 R	PRV 00200151 R	50	C	62,2	191,2	T4B6N/26
PRX 00200200 R	PRV 00200200 R	50	C	62,2	191,2	T4B6N/36
PRX 0030035 R	PRV 0030035 R	50	C	73,7	291,7	T4B6N/08
PRX 0030070 R	PRV 0030070 R	50	C	73,7	291,7	T4B6N/12
PRX 00300116 R	PRV 00300116 R	50	C	73,7	291,7	T4B6N/20
PRX 00300151 R	PRV 00300151 R	50	C	73,7	291,7	T4B6N/26
PRX 00300200 R	PRV 00300200 R	50	C	73,7	291,7	T4B6N/36
PRX 0050035 R	PRV 0050035 R	50	C	86,1	501,7	T4B6N/08
PRX 0050070 R	PRV 0050070 R	50	C	86,1	501,7	T4B6N/12
PRX 00500116 R	PRV 00500116 R	50	C	86,1	501,7	T4B6N/20
PRX 00500151 R	PRV 00500151 R	50	C	86,1	501,7	T4B6N/26
PRX 00500200 R	PRV 00500200 R	50	C	86,1	501,7	T4B6N/36
PRX 0080035 R	PRV 0080035 R	100	C	113,8	754,9	T4B6N/08
PRX 0080070 R	PRV 0080070 R	100	C	113,8	754,9	T4B6N/12
PRX 00800116 R	PRV 00800116 R	100	C	113,8	754,9	T4B6N/20
PRX 00800151 R	PRV 00800151 R	100	C	113,8	754,9	T4B6N/26
PRX 00800200 R	PRV 00800200 R	100	C	113,8	754,9	T4B6N/36
PRX 0100035 R	PRV 0100035 R	100	C	117,6	936,6	T4B6N/08
PRX 0100070 R	PRV 0100070 R	100	C	117,6	936,6	T4B6N/12
PRX 01000116 R	PRV 01000116 R	100	C	117,6	936,6	T4B6N/20
PRX 01000151 R	PRV 01000151 R	100	C	117,6	936,6	T4B6N/26
PRX 01000200 R	PRV 01000200 R	100	C	117,6	936,6	T4B6N/36
PRX 0150035 R	PRV 0150035 R	100	C	136,7	1478,0	T4B6N/08
PRX 0150070 R	PRV 0150070 R	100	C	136,7	1478,0	T4B6N/12
PRX 01500116 R	PRV 01500116 R	100	C	136,7	1478,0	T4B6N/20
PRX 01500151 R	PRV 01500151 R	100	C	136,7	1478,0	T4B6N/26
PRX 01500200 R	PRV 01500200 R	100	C	136,7	1478,0	T4B6N/36
PRX 0200035 R	PRV 0200035 R	100	C	149,2	1958,6	T4B6N/08
PRX 0200070 R	PRV 0200070 R	100	C	149,2	1958,6	T4B6N/12
PRX 02000116 R	PRV 02000116 R	100	C	149,2	1958,6	T4B6N/20
PRX 02000151 R	PRV 02000151 R	100	C	149,2	1958,6	T4B6N/26
PRX 02000200 R	PRV 02000200 R	100	C	149,2	1958,6	T4B6N/36

* Heat exchanger features available at page 246

Codes and system layout

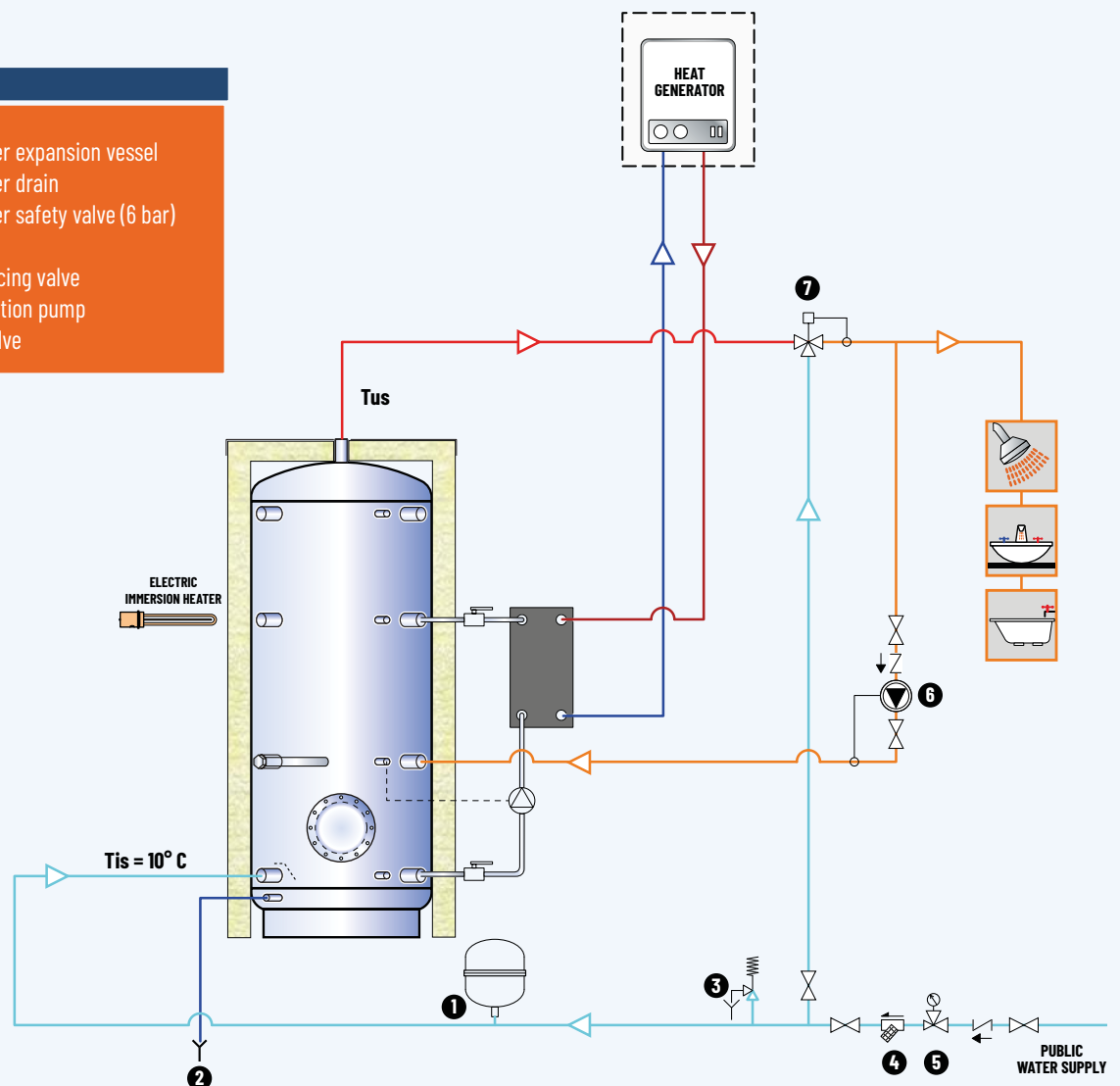
Disclaimer: this layout is purely indicative. It does not replace consultant's design

PR - Soft insulation with polyester and PVC jacket

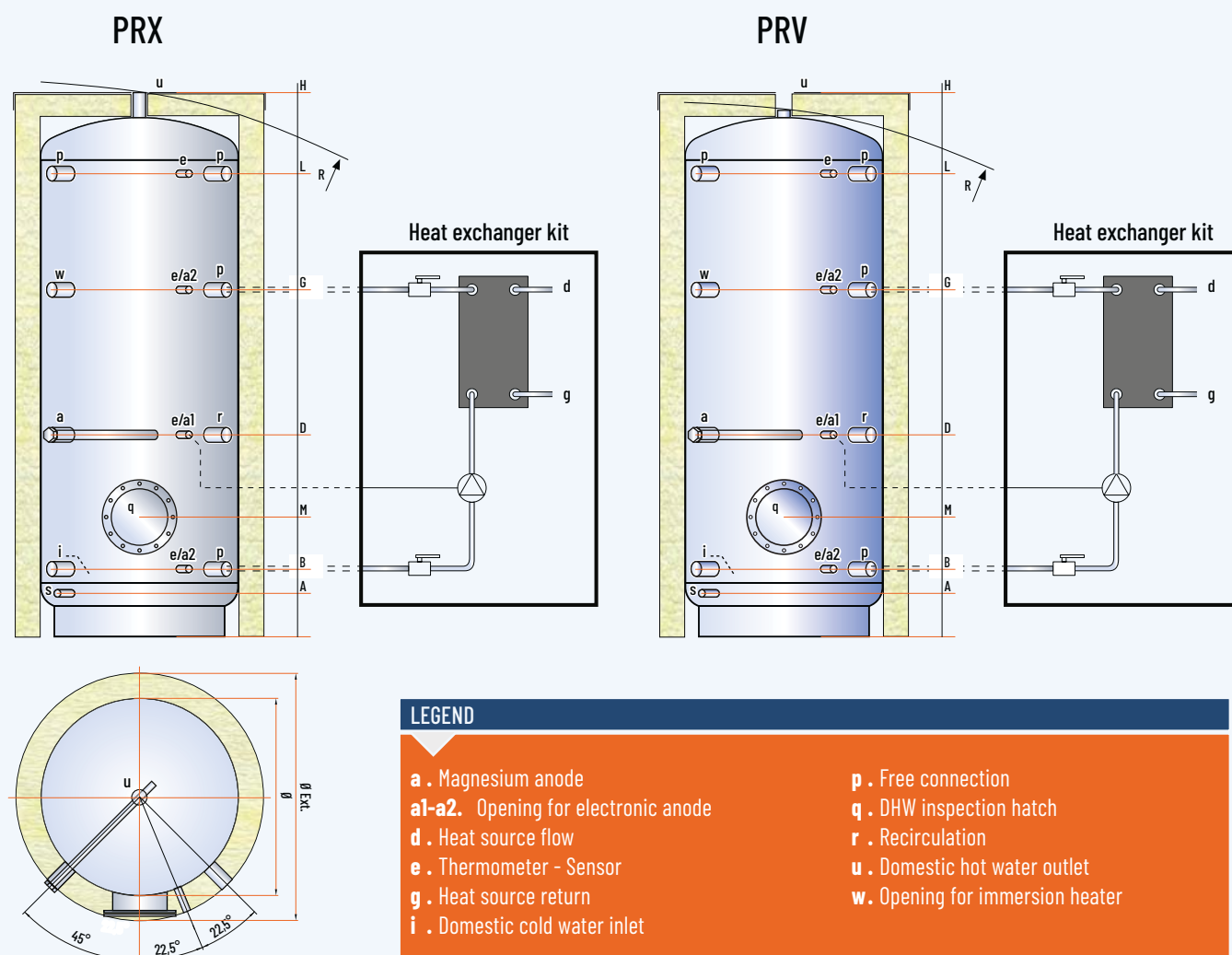
STAINLESS STEEL BUFFER	GLASS LINED BUFFER	INSULATION THICK. (mm)	ErP CLASS	HEAT LOSS S (W)	REAL CAPACITY (L)	HEAT EXCHANGER TYPE *
PRX 0080035 F	PRV 0080035 F	130	C	132,6	754,9	T4B6N/08
PRX 0080070 F	PRV 0080070 F	130	C	132,6	754,9	T4B6N/12
PRX 00800116 F	PRV 00800116 F	130	C	132,6	754,9	T4B6N/20
PRX 00800151 F	PRV 00800151 F	130	C	132,6	754,9	T4B6N/26
PRX 00800200 F	PRV 00800200 F	130	C	132,6	754,9	T4B6N/36
PRX 0100035 F	PRV 0100035 F	130	C	143,9	936,6	T4B6N/08
PRX 0100070 F	PRV 0100070 F	130	C	143,9	936,6	T4B6N/12
PRX 01000116 F	PRV 01000116 F	130	C	143,9	936,6	T4B6N/20
PRX 01000151 F	PRV 01000151 F	130	C	143,9	936,6	T4B6N/26
PRX 01000200 F	PRV 01000200 F	130	C	143,9	936,6	T4B6N/36
PRX 0150035 F	PRV 0150035 F	130	C	169,2	1478,0	T4B6N/08
PRX 0150070 F	PRV 0150070 F	130	C	169,2	1478,0	T4B6N/12
PRX 01500116 F	PRV 01500116 F	130	C	169,2	1478,0	T4B6N/20
PRX 01500151 F	PRV 01500151 F	130	C	169,2	1478,0	T4B6N/26
PRX 01500200 F	PRV 01500200 F	130	C	169,2	1478,0	T4B6N/36
PRX 0200035 F	PRV 0200035 F	130	C	184,6	1958,6	T4B6N/08
PRX 0200070 F	PRV 0200070 F	130	C	184,6	1958,6	T4B6N/12
PRX 02000116 F	PRV 02000116 F	130	C	184,6	1958,6	T4B6N/20
PRX 02000151 F	PRV 02000151 F	130	C	184,6	1958,6	T4B6N/26
PRX 02000200 F	PRV 02000200 F	130	C	184,6	1958,6	T4B6N/36

LEGEND

- 1 . Domestic water expansion vessel
- 2 . Domestic water drain
- 3 . Domestic water safety valve (6 bar)
- 4 . Strainer
- 5 . Pressure reducing valve
- 6 . DWH Recirculation pump
- 7 . DWH 3-way valve



* Heat exchanger features available at page 246



MODEL	DIMENSIONS (mm)		Ø EXT ** (Hard/Soft ins.)	R *	Electronic anode (optional)	WEIGHT (ONLY CYLINDER) (kg)	
	Ø	H				PRX	PRV
PR_ 00200_ R	450	1320	550	1440	a1 (EPS 375/125)	50	56
PR_ 00300_ R	500	1610	600	1730	a1 (EPS 375/125)	61	69
PR_ 00500_ R	650	1660	750	1835	a1 (EPS 375/125)	78	91
PR_ 00800_ _	790	1750	990/1050	1745	a1 (EPS 375/125)	116	155
PR_ 01000_ _	790	2110	990/1050	2095	a1 (EPS 375/125)	134	179
PR_ 01500_ _	1000	2115	1200/1260	2145	a2 (EPS 375/125)	195	283
PRX 02000_ _	1100	2465	1300/1360	2465	a2 (EPS 375/125)	261	-
PRV 02000_ _	1100	2380	1300/1360	2465	a2 (EPS 375/125)	-	399

* For capacities from 200 to 500 litres, the tilt height refers to the insulated cylinder
 ** The insulation is removable except for models from 200 to 500 litres

MODEL	HEIGHTS (mm)						CONNECTIONS (GAS)						
	A	B	D	G	L	M	a	p	r	e	i	u	s
PR_ 00200_ R	110	190	515	890	1075	350	1"¼	½"	1"¼	1"	1"½	220/290	
PR_ 00300_ R	110	215	595	1080	1350	375	1"¼	½"	1"¼	1"	1"½	220/290	
PR_ 00500_ R	135	240	615	1105	1375	445	1"¼	½"	1"¼	1"	1"½	220/290	
PR_ 00800_ _	150	275	655	1145	1410	450	1"¼	½"	1"½	1"	1"½	300/380	
PR_ 01000_ _	150	275	810	1355	1755	455	1"¼	½"	1"½	1"	1"½	300/380	
PR_ 01500_ _	235	340	765	1400	1725	520	1"¼	½"	2"	1"	1"½	300/380	
PRX 02000_ _	100	470	1010	1515	1975	655	1"¼	½"	2"	1"	1"½	350/430	
PRV 02000_ _	265	370	930	1435	1945	575	1"¼	½"	2"	1"	1"½	350/430	

Thermal performance buffer/heat exchanger kit - Primary side temperature 80/60 °C

MODEL	POWER EXCHANGED (kW)	DHW CONTINUOUS FLOW T=10/45° C (L/h)	FIRST 10 MINUTES RATING (L)*	RECOVERY TIME AT 60 °C (min)	PRIMARY SIDE FLOW RATE (L/h)	PRESSURE DROP PRIMARY SIDE (mH ₂ O)
PR_00200 35_	35	860	303	19	1505	1,8
PR_00200 70_	70	1720	401	10	3010	2,9
PR_00200 116_	116	2850	532	6	4988	2,8
PR_00200 151_	151	3710	633	5	6493	3,1
PR_00200 200_	200	4914	773	3	8600	3,1
PR_00300 35_	35	860	403,3	29	1505	1,8
PR_00300 70_	70	1720	501	15	3010	2,9
PR_00300 116_	116	2850	632	9	4988	2,8
PR_00300 151_	151	3710	733	7	6493	3,1
PR_00300 200_	200	4914	873	5	8600	3,1
PR_00500 35_	35	860	583	48	1505	1,8
PR_00500 70_	70	1720	660	25	3010	2,9
PR_00500 116_	116	2850	766	15	4988	2,8
PR_00500 151_	151	3710	846	12	6493	3,1
PR_00500 200_	200	4914	959	9	8600	3,1
PR_00800 35_	35	860	877	77	1505	1,8
PR_00800 70_	70	1720	949	40	3010	2,9
PR_00800 116_	116	2850	1047	24	4988	2,8
PR_00800 151_	151	3710	1122	18	6493	3,1
PR_00800 200_	200	4914	1226	14	8600	3,1
PR_01000 35_	35	860	1069	97	1505	1,8
PR_01000 70_	70	1720	1135	50	3010	2,9
PR_01000 116_	116	2850	1223	30	4988	2,8
PR_01000 151_	151	3710	1291	23	6493	3,1
PR_01000 200_	200	4914	1385	17	8600	3,1
PR_01500 35_	35	860	1558	145	1505	1,8
PR_01500 70_	70	1720	1612	75	3010	2,9
PR_01500 116_	116	2850	1685	45	4988	2,8
PR_01500 151_	151	3710	1741	35	6493	3,1
PR_01500 200_	200	4914	1819	26	8600	3,1
PR_02000 35_	35	860	2044	194	1505	1,8
PR_02000 70_	70	1720	2086	100	3010	2,9
PR_02000 116_	116	2850	2142	60	4988	2,8
PR_02000 151_	151	3710	2185	46	6493	3,1
PR_02000 200_	200	4914	2246	35	8600	3,1

* Storage temperature at 60 °C

Thermal performance buffer/heat exchanger kit - Primary side temperature 70/50 °C

MODEL	POWER EXCHANGED (kW)	DHW CONTINUOUS FLOW T=10/45° C (L/h)	FIRST 10 MINUTES RATING (L)*	RECOVERY TIME AT 60 °C (min)	PRIMARY SIDE FLOW RATE (L/h)	PRESSURE DROP PRIMARY SIDE (mH ₂ O)
PR_00200 35_	32	786	293	21	1368	1,6
PR_00200 70_	59	1449	360	12	2556	2,2
PR_00200 116_	105	2580	492	7	4536	2,6
PR_00200 151_	135	3317	578	6	5796	2,6
PR_00200 200_	185	4545	721	4	7956	2,8
PR_00300 35_	32	786	382	32	1368	1,6
PR_00300 70_	59	1449	460	18	2556	2,2
PR_00300 116_	105	2580	592	10	4536	2,6
PR_00300 151_	135	3317	677	8	5796	2,6
PR_00300 200_	185	4545	821	6	7956	2,8
PR_00500 35_	32	786	574	53	1368	1,6
PR_00500 70_	59	1449	636	30	2556	2,2
PR_00500 116_	105	2580	741	17	4536	2,6
PR_00500 151_	135	3317	810	13	5796	2,6
PR_00500 200_	185	4545	925	10	7956	2,8
PR_00800 35_	32	786	865	84	1368	1,6
PR_00800 70_	59	1449	918	47	2556	2,2
PR_00800 116_	105	2580	1016	27	4536	2,6
PR_00800 151_	135	3317	1080	20	5796	2,6
PR_00800 200_	185	4545	1185	15	7956	2,8
PR_01000 35_	32	786	1040	106	1368	1,6
PR_01000 70_	59	1449	1102	59	2556	2,2
PR_01000 116_	105	2580	1194	33	4536	2,6
PR_01000 151_	135	3317	1265	26	5796	2,6
PR_01000 200_	185	4545	1342	18	7956	2,8
PR_01500 35_	32	786	1520	159	1368	1,6
PR_01500 70_	59	1449	1574	89	2556	2,2
PR_01500 116_	105	2580	1650	50	4536	2,6
PR_01500 151_	135	3317	1698	39	5796	2,6
PR_01500 200_	185	4545	1781	28	7956	2,8
PR_02000 35_	32	786	2003	212	1368	1,6
PR_02000 70_	59	1449	2044	119	2556	2,2
PR_02000 116_	105	2580	2077	66	4536	2,6
PR_02000 151_	135	3317	2122	51	5796	2,6
PR_02000 200_	185	4545	2223	38	7956	2,8

* Storage temperature at 60 °C

Thermal performance buffer/heat exchanger kit - Primary side temperature 60/40 °C

MODEL	POWER EXCHANGED (kW)	DHW CONTINUOUS FLOW T=10/45° C (L/h)	FIRST 10 MINUTES RATING (L)*	RECOVERY TIME AT 60 °C (min)	PRIMARY SIDE FLOW RATE (L/h)	PRESSURE DROP PRIMARY SIDE (mH ₂ O)
PR_00200 35_	14	344	239	48	612	0,4
PR_00200 70_	31	762	298	23	1332	0,8
PR_00200 116_	66	1622	420	11	2844	1,2
PR_00200 151_	95	2334	521	9	4104	1,5
PR_00200 200_	140	3440	678	5	6048	1,7
PR_00300 35_	14	786	373	73	612	0,4
PR_00300 70_	31	1449	440	34	1332	0,8
PR_00300 116_	66	2580	570	16	2844	1,2
PR_00300 151_	95	3317	649	11	4104	1,5
PR_00300 200_	140	4545	783	8	6048	1,7
PR_00500 35_	14	786	562	121	612	0,4
PR_00500 70_	31	1449	615	57	1332	0,8
PR_00500 116_	66	2580	716	27	2844	1,2
PR_00500 151_	95	3317	777	18	4104	1,5
PR_00500 200_	140	4545	876	13	6048	1,7
PR_00800 35_	14	786	818	192	612	0,4
PR_00800 70_	31	1449	874	89	1332	0,8
PR_00800 116_	66	2580	969	43	2844	1,2
PR_00800 151_	95	3317	1030	28	4104	1,5
PR_00800 200_	140	4545	1130	20	6048	1,7
PR_01000 35_	14	786	975	242	612	0,4
PR_01000 70_	31	1449	1056	112	1332	0,8
PR_01000 116_	66	2580	1151	53	2844	1,2
PR_01000 151_	95	3317	1212	37	4104	1,5
PR_01000 200_	140	4545	1314	24	6048	1,7
PR_01500 35_	14	786	1504	363	612	0,4
PR_01500 70_	31	1449	1526	169	1332	0,8
PR_01500 116_	66	2580	1564	80	2844	1,2
PR_01500 151_	95	3317	1588	55	4104	1,5
PR_01500 200_	140	4545	1620	37	6048	1,7
PR_02000 35_	14	786	1984	485	612	0,4
PR_02000 70_	31	1449	2006	226	1332	0,8
PR_02000 116_	66	2580	2044	105	2844	1,2
PR_02000 151_	95	3317	268	72	4104	1,5
PR_02000 200_	140	4545	2109	50	6048	1,7

* Storage temperature at 45 °C

Thermal performance buffer/heat exchanger kit - Primary side temperature 50/40 °C

MODEL	POWER EXCHANGED (kW)	DHW CONTINUOUS FLOW T=10/45° C (L/h)	FIRST 10 MINUTES RATING (L)*	RECOVERY TIME AT 60 °C (min)	PRIMARY SIDE FLOW RATE (L/h)	PRESSURE DROP PRIMARY SIDE (mH ₂ O)
PR_00200 35_	-	-	-	-	-	-
PR_00200 70_	14	344	238	51	1224	0,7
PR_00200 116_	34	835	309	21	2916	1,3
PR_00200 151_	48	1179	358	18	4140	1,5
PR_00200 200_	72	1769	441	10	6192	1,8
PR_00300 35_	-	-	-	-	-	-
PR_00300 70_	14	344	328	75	1224	0,7
PR_00300 116_	34	835	381	31	2916	1,3
PR_00300 151_	48	1179	418	22	4140	1,5
PR_00300 200_	72	1769	482	16	6192	1,8
PR_00500 35_	-	-	-	-	-	-
PR_00500 70_	14	344	529	126	1224	0,7
PR_00500 116_	34	835	570	52	2916	1,3
PR_00500 151_	48	1179	599	36	4140	1,5
PR_00500 200_	72	1769	648	25	6192	1,8
PR_00800 35_	-	-	-	-	-	-
PR_00800 70_	14	344	782	197	1224	0,7
PR_00800 116_	34	835	823	83	2916	1,3
PR_00800 151_	48	1179	852	55	4140	1,5
PR_00800 200_	72	1769	901	39	6192	1,8
PR_01000 35_	-	-	-	-	-	-
PR_01000 70_	14	344	964	248	1224	0,7
PR_01000 116_	34	835	1005	103	2916	1,3
PR_01000 151_	48	1179	1034	73	4140	1,5
PR_01000 200_	72	1769	1083	47	6192	1,8
PR_01500 35_	-	-	-	-	-	-
PR_01500 70_	14	344	1489	374	1224	0,7
PR_01500 116_	34	835	1505	155	2916	1,3
PR_01500 151_	48	1179	1517	109	4140	1,5
PR_01500 200_	72	1769	1536	72	6192	1,8
PR_02000 35_	-	-	-	-	-	-
PR_02000 70_	14	344	1969	500	1224	0,7
PR_02000 116_	34	835	1985	204	2916	1,3
PR_02000 151_	48	1179	1997	143	4140	1,5
PR_02000 200_	72	1769	2016	97	6192	1,8

* Storage temperature at 45 °C