TANKPAK® SERIES 4 DELUXE

FOR WHEN THE SPECIFICATION DEMANDS THE BEST

GAS | COMMERCIAL GRADE HX | STAGE & ROTATE | INTELLIGENT CONTROLLER | BMS & REMOTE MONITORING[1] | DUTY STANDBY PUMPS

New 28L COMMERCIAL Continuous Flow Gas water heater, increased output, commercial grade heat exchanger, pump options and redundancy features increase system reliability.

COMMERCIAL GRADE HEAT EXCHANGER

Computational Fluid Dynamics design (CFD) by Rheem engineers has resulted in a commercial grade heat exchanger with larger bore, thicker wall and optimized fluid path for improved performance and reliability.

STAGE/ROTATE WITH INTELLIGENT CONTROLLER

Full access to all operational parameters and alarms is made possible via the smart controller. Optionally, connect a Rheem Connect® monitoring package (purchased separately) for BMS and/or remote monitoring via Rheem Connect Portal for total peace of mind.

Continuous flow gas water heater (CFGWH) stage[2] as demand increases, reducing energy and extending life by only using the heaters required to meet the demand. Rotation to the next heater occurs on each new call for heat or if a heater is off line.

SYSTEM DIAGNOSTICS WITH MULTIPLE SENSORS

Three sensors monitor tank, building flow and building return temperatures for total system diagnostics.

36 individual alarm points monitored, including blocked filter warning.

DUTY/STANDBY PUMP OPTIONS

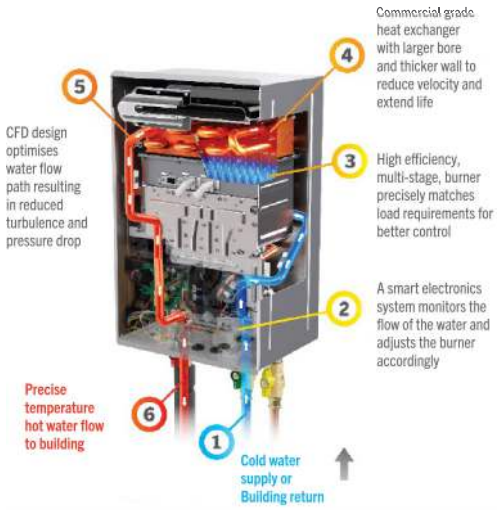
Optional duty/standby primary and/or secondary pumps supplied on the frame saving plant room space and installation costs.

Auto duty changeover or if a pump is in error provides 100% redundancy.

MODULAR FRAMES

Floor standing frame can be wall mounted with brackets provided.

Indoor models are supplied with factory fitted common condensate drains.

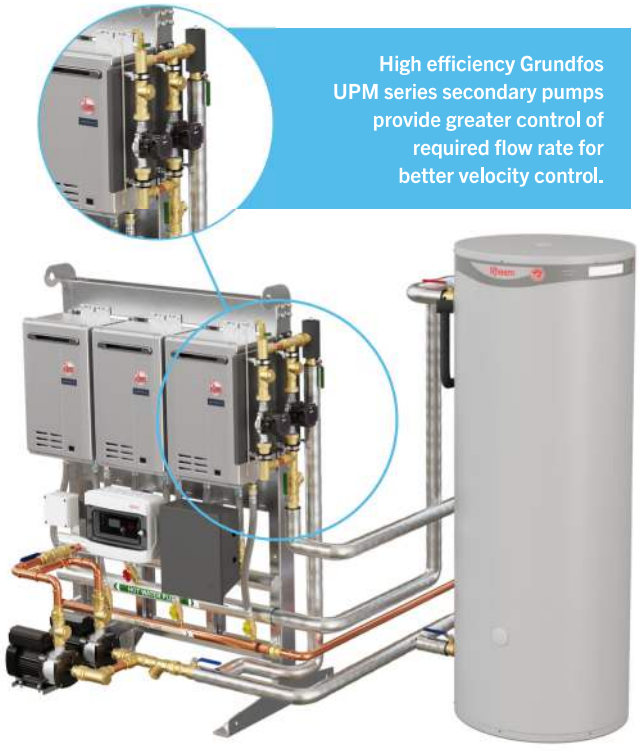


Lead Free
AS 3498
Lic WMKA00200

HEAT EXCHANGER 5 YEAR WARRANTY

PARTS & LABOUR 3 YEAR WARRANTY

*Conditions apply: For full terms and conditions please contact Rheem or visit www.rheem.com.au/rheem/help/Warranties



High efficiency Grundfos UPM series secondary pumps provide greater control of required flow rate for better velocity control.

TANKPAK® SERIES 4 DELUXE FEATURES UP CLOSE

2 to 6 pak with floor standing frame[3]

Factory installed condensate drains and traps (indoor models)

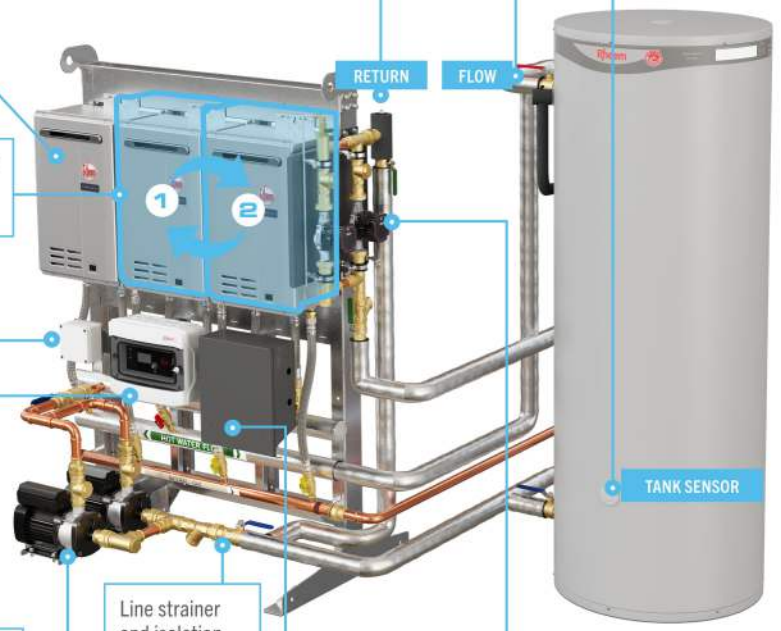
New 28L COMMERCIAL Continuous Flow Gas Water Heaters.

3 x 10m system temperature sensors for improved performance and diagnostics. Can be easily extended with new quick connect terminals

Intelligent controller. Monitors 36 individual diagnostic points

In-house BMS via Rheem Connect® monitoring package (purchased separately)[1]

Ethernet or 4G remote monitoring option via Rheem Connect® monitoring package (purchased separately)[1]



Stage and rotate[2] as required to meet demand

Junction Box

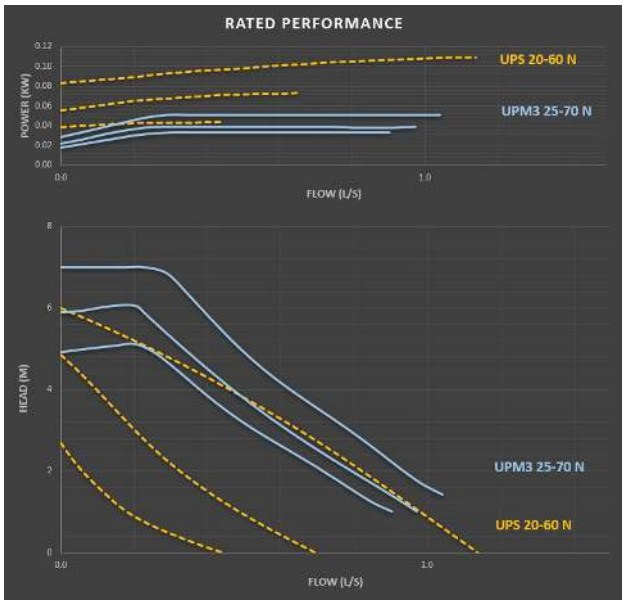
Line strainer and isolation valve supplied

Duty/standby primary pump option

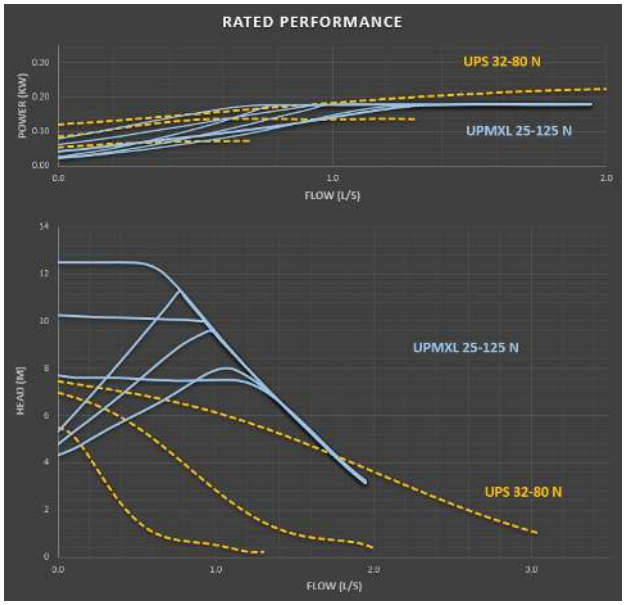
Water heater GPOs provided as standard

Temperature controlled duty/standby building return pump option (outdoor cover removed)

New UPM 3 25-70 and UPS 20-60 Secondary Pump Comparison Curves



New UPM XL 25-125 and UPS 32-80 Secondary Pump Comparison Curves

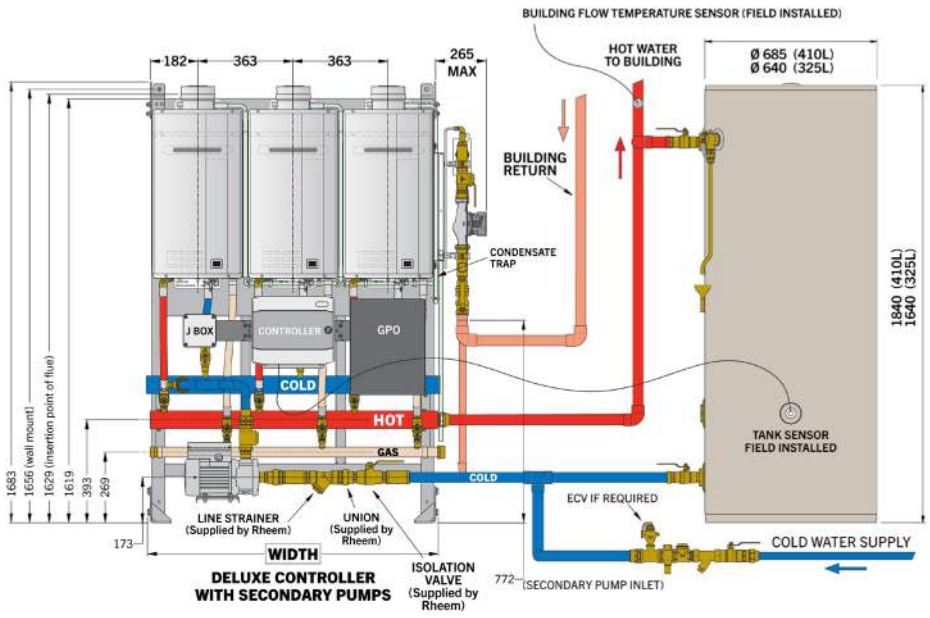


TECHNICAL DATA

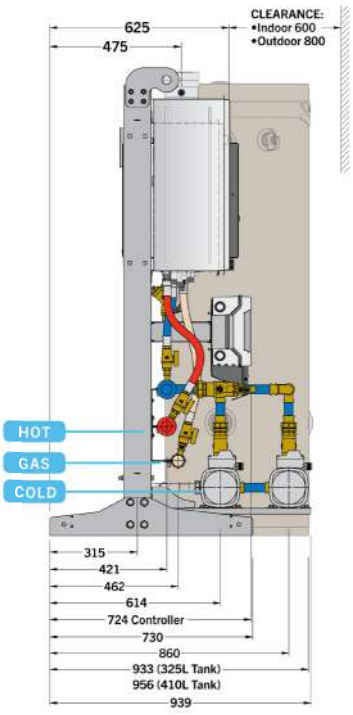
TANKPAK® QUICK SIZING GUIDE

Apartments 1 hr peak				Hotel Rooms 1 hr peak	Amenities 30 min peak	Nursing home 2 hr peak	Tankpak® Series 4 Model	Primary Circuit Brach/ Manifold (mm)[12]	Recovery @ 50°C Rise (L/hr)	Storage Tank Capacity (L)	First Hour Capacity (L)	Thermal Input (MJ/h)
Studio[4]	1 & 2 bedroom[4]	2 bedroom[4]	2 & 3 bedroom[4]	1-3 Star[5]	No. of showers[6]	No. of beds[7]						
50	22	17	15	25	33	37	TP01/1430	25 / 25	843	410	1253	210
84	36	28	25	42	50	62	TP02/1430	25 / 25	1686	410	2096	420
118	51	39	36	59	67	87	TP03/1430	32 / 32	2528	410	2938	630
151	66	50	46	76	84	112	TP04/1430	40 / 40	3371	410	3781	840
185	80	62	56	92	101	137	TP05/1430	40 / 40	4214	410	4624	1050
219	95	73	66	109	118	162	TP06/1430	40 / 40	5057	410	5467	1260
302	132	101	92	151	168	224	2x TP04/1430	40 / 50	6742	820	7562	1680
370	161	123	112	185	201	274	2x TP05/1430	40 / 50	8428	820	9248	2100
437	190	146	133	219	235	324	2x TP06/1430	40 / 50	10114	820	10934	2520
555	241	185	168	277	302	411	3x TP05/1430	40 / 65	12642	1230	13872	3150
605	263	202	183	302	319	448	4x TP04/1430	40 / 65	13484	1230	15124	3360
656	285	219	199	328	353	486	3x TP06/1430	40 / 65	15171	1230	16401	3780

TYPICAL DELUXE MODEL CONTROLLER WITH TWO PRIMARY PUMPS AND TWO SECONDARY PUMPS



Floor Mount - Front View



Floor Mount - Side View

WIDTH					
No. of Heaters	2	3	4	5	6
Inline (mm)	755	1118	1481	1844	2207

*All dimensions are reference only.

TECHNICAL DATA

TANKPAK®							
MODEL	INTERNAL EXTERNAL	TPI 01[8] TPE 01[8]	TPI 02 TPE 02	TPI 03 TPE 03	TPI 04 TPE 04	TPI 05 TPE 05	TPI 06 TPE 06
Thermal Input	MJ/h	210	420	630	840	1050	1260
Recovery Rate at 50°C rise	L/hr	843	1686	2528	3371	4214	5057
Mounting options		W/F[8]	F[3]	F[3]	F[3]	F[3]	F[3]
Controller			Deluxe				
Storage Tanks		1 x 610340 1 x 610430	1 x 610340 1 x 610430	1 x 610340 1 x 610430	1 x 610340 1 x 610430	- 1 x 610430	- 1 x 610430
1st Hour Capacity (610340)	Litres	1006	2011	2853	3696	-	-
1st Hour Capacity (610430)	Litres	1048	2095	2938	3781	4624	5467
Electrical Supply 240V 50Hz[9]	Amps	0.75	7.5	8.3	9.2	10.7	11.5
Electrical Connection		1.8m 10A plug and lead				240V 50Hz single phase hard wired connection	
PHWF and PHWR Pipe Size	mm	25	25	32	40	40	40
Gas Connection[13]	mm	20	40	40	40	50	50
Weight Empty[10]	kg	-	307	345	384	449	487

PUMP IDENTIFICATION	PUMP MODEL[11]	PRIMARY PUMP	PRIMARY PUMP OPTIONS	SECONDARY PUMP OPTIONS
1	CM3-2	(2 to 4 Pak)	Single pump or Duty/Standby	
2	CM5-2	(5 to 6 Pak)		
4	UPM3 (UPS 20-60N equivalent)			Optional Duty/Standby supplied on frame
5	UPMXL (UPS32-80N equivalent)			

PRODUCT CODE IDENTIFICATION										
Tankpak® Series 4	External or Internal	No. of Heaters	Natural Gas Or Propane	Floor	Deluxe	No. of Primary Pumps	Primary Pump Model	Heater ID	No. of Secondary Pumps	Secondary Model
TP4	E	02-06	N	F	D	1	1 (02-04)	8	0	0 (NO PUMP)
	I		P			2 Optional	2 (05-06)		2 Optional	4 (UPM3) 5 (UPMXL)

DELUXE PRODUCT CODE EXAMPLE TP4E05NFD22B24 TP4 (Tankpak® Series 4) + E (External) + 5 (Number of Heaters) + N (Natural gas) + F (Floor) + D (Deluxe) + 2 (Number of Primary Pumps) + 2 (Pump Model Identifier) + 8 (Heater Identification) + 2 (Number of Secondary Pumps) + 4 (Pump Model Identifier).

[1] Via Rheem Connect® monitoring package (purchased separately).
[2] Tankpak® models with less than 3 Continuous Flow Gas Water Heaters (CFGWH) do not stage and rotate.
[3] All floor models supplied with bracket to support wall mounting installation.
[4] Allowance - Studio 25L, 1 bedroom 40L, 2 bedroom 75L, 3 bedroom 90L. Calculated on even ratio of apartment mix.
[5] Allowance - 2 people per room, 25L per person.
[6] Allowance - 25L per shower.
[7] Allowance - 37.5L per bed for showering, bed pans, cleaning, 6L per bed for meals, 24L per bed for laundry.
[8] Tankpak® models with 1x CFGWH are supplied with CFGWH, pump and controller separately.
[9] DLX models based on all heaters, 1 x primary pump and 2 x UPMXL operating simultaneously.
[10] Weight includes CFGWH unit, 610430 storage tank/s, 1 x primary pump, frame and preassembled manifolds.
Note: Add 48.2kg for CM3-2 and CM5-2 D/S Primary assy, 19.4 kg for UPM3 D/S secondary assy and 22.7 kg for UPMXL D/S secondary assy.
[11] Pumps are nominated for a total manifold length of 20m of primary flow and return piping and 20 bends, excluding Equa-Flow manifolds on storage tanks and Tankpak® @ 1.2m/sec velocity.
One pump in operation per Tankpak®.
[12] Site specific size of the DHW Branch/Manifold.
[13] Gas pipe sizing must be conducted by others as per AS/NZS 5601.1 for multiple Tankpak® units connected in parallel.