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GRUNDFOS DATA BOOKLET

GT tanks

For cold-water and heating applications



BE > THINK > INNOVATE >

GRUNDFOS

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1. General data

Applications

The Grundfos GT pressure tanks are long-life tanks ideally suited for controlling the pressure in domestic as well as industrial applications in the following systems:

- cold-water (drinking-water) systems.
See *Cold-water tanks*, page 5.
- heating systems. See *3. Heating*, page 16.

Grundfos GT tanks ensure long, maintenance-free, reliable and controlled operation.

GT tanks can be integrated in many different systems with a wide variety of pumps. The large number of tank sizes and types available makes it possible to select the pressure tank that best suits the application and system in question.

Type key

Example	GT	- U	- 25	PN 10	G 1/2	V
Type range						
Tank type: U = bladder H = diaphragm D = double diaphragm DF = double diaphragm with FlowThru C = composite tank CF = composite tank with FlowThru HR = non-replaceable diaphragm for heating applications						
Tank volume [litres]						
Pressure rating						
Pipe connection						
Position: V = vertical H = horizontal						

Tank range

Application	Positioning	Volume range [l]
Cold water	Vertical	8 to 5000
	Horizontal	24 to 80
Heating	Vertical	8 to 1000

Overview of tank types

The table below shows the available tank types in relation to application.

Symbol	Description						
•	Recommended						
-	Not recommended						
Application	Tank type						
	GT-U	GT-H	GT-D	GT-DF	GT-C	GT-CF	GT-HR
Heating	-	-	-	-	-	-	•
Chilled water	-	-	-	-	-	-	•
Sea water	-	-	-	-	•	-	-
Grey water*	○	•	•	-	•	-	-
Drinking water	○	○	○	○	○	•	-

* Grey water, also known as sullage, is non-industrial wastewater generated from domestic processes, such as dish washing, laundry and bathing.

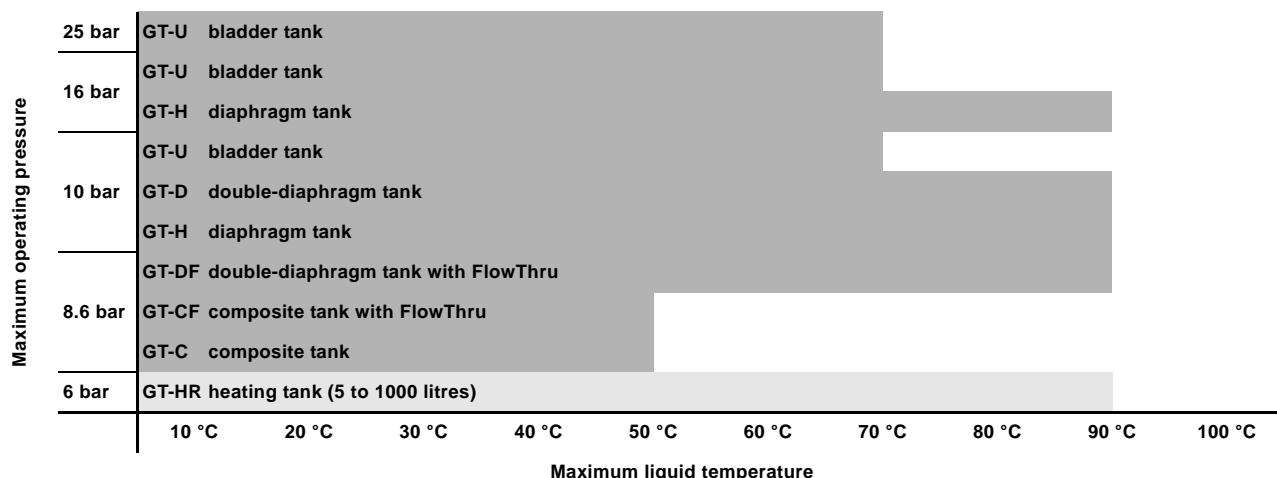
Approvals and markings

Tank type	Approvals				Markings
	WRAS	NSF	ACS	CE	GOST
GT-U	-	-	•	•	-
GT-H	-	-	•	•	•
GT-D	-	-	•	•	•
GT-DF	-	-	•	•	•
GT-C	-	-	•	•	•
GT-CF	-	-	•	•	•
GT-HR	-	-	-	•	-

Tank colours

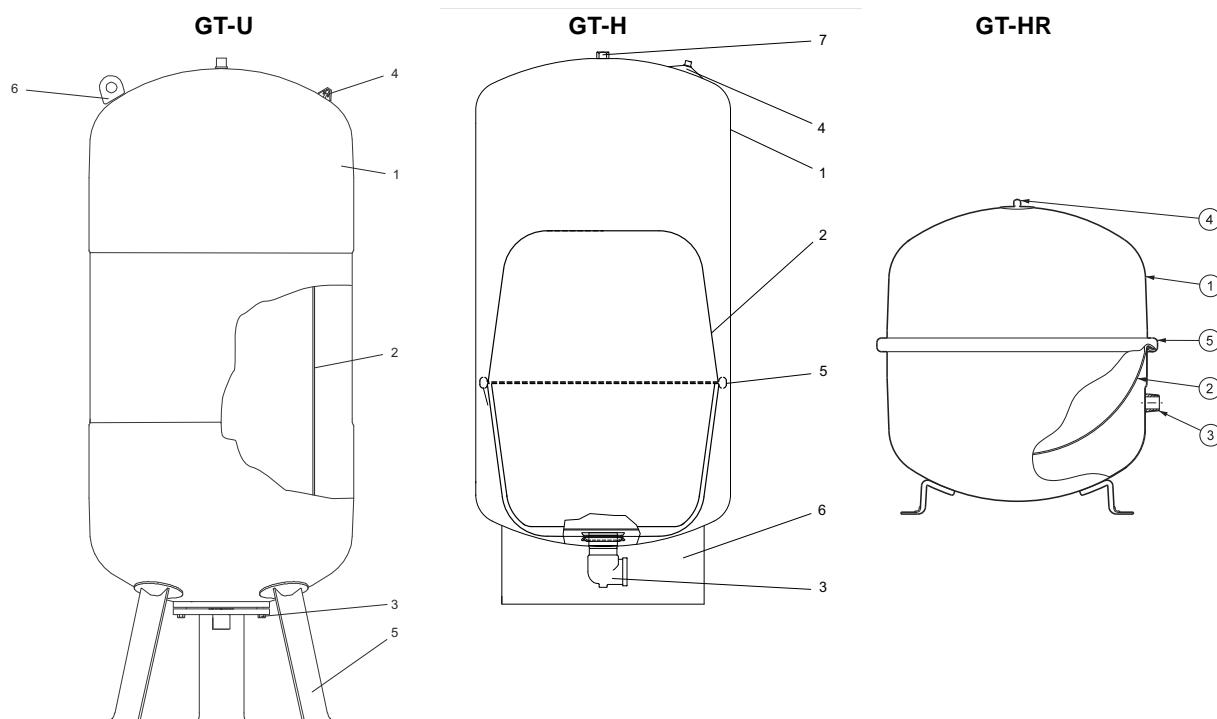
Application	Colour	Colour code
Cold water	Grey	NCS S7005-R80B, gloss 20-35
Heating	Red	RAL3011

Operating conditions



Material specifications

Pos.	Component	Material	Tank type
1	Tank body	Low-carbon sheet steel	GT-U, GT-H, GT-D, GT-DF, GT-HR
		Fibreglass, epoxy resin, composite	GT-C, GT-CA, GT-CF
2	Bladder, diaphragm	Butyl	GT-U, GT-H, GT-D, GT-DF, GT-C, GT-CF
		EPDM rubber	GT-HR
3	Flange/pipe connection	Stainless steel EN 1.4301/AISI 304	GT-H, GT-D, GT-DF
		Stainless steel EN 1.4401/AISI 316 Ti	GT-U
		Polyvinyl chloride (PVC)	GT-C, GT-CF
4	Air valve	Low-carbon sheet steel	GT-HR
		Steel/brass	GT-U, GT-H, GT-D, GT-DF, GT-C, GT-CF, GT-HR
		Low-carbon sheet steel	GT-U, GT-H, GT-D, GT-DF, GT-HR
5	Clamping ring/feet	Polypropylene (PP)	GT-C, GT-CF
6	Lifting eye/skirt	Low-carbon sheet steel	GT-U, GT-H, GT-D, GT-DF, GT-HR
		Polypropylene (PP)	GT-C, GT-CF
7	Tapped hole	Low-carbon sheet steel	GT-U



TM03 8262 0907 - TM02 9095 0907 - TM03 1677 2705

Fig. 1 Sectional drawings, examples of tanks

The actual GT tank may look different from the examples shown above.

2. Cold water

Cold-water tanks

The Grundfos GT pressure tanks for cold-water applications are long-life tanks ideally suited for controlling the pressure in domestic as well as industrial applications.

Typical applications:

- domestic water supply systems
- booster systems
- irrigation systems
- industrial systems.

GT tanks can be integrated in many different systems with a wide variety of pumps. The large number of tank sizes and types available makes it possible to select the pressure tank that best suits the application and system in question.

Tank range

GT-U (bladder tank)

The pressure tank body is made of steel and is factory-pre-charged with nitrogen. All parts in contact with water are either made of stainless steel or coated for protection against corrosion.

The replaceable bladder for tanks with a volume exceeding 60 litres is made of high-quality rubber material suitable for potable-water applications, such as booster systems, pressurisation and water hammer arresting.

GT-H (diaphragm tank)

The polypropylene liner combined with an FDA-approved high-grade butyl diaphragm makes up the water chamber. This is held against the tank wall with a steel clench ring.

The brass air valve, sealed by a threaded O-ring valve cap, prevents air leaks.

GT-D (double-diaphragm tank)

The diaphragm is a chlorine-resistant 100 % butyl diaphragm with a precision-moulded copolymer polypropylene liner for superior air and water separation.

The diaphragm assembly is clenched together with a positive lock internal clench ring which contains drawdown water in a pre-charged air atmosphere, thus providing separation between the diaphragm and tank wall. This "air buffer" means less problems with condensation.

The air chamber is sealed with a fixed O-ring and closed cell foam.

GT-DF (double-diaphragm tank with FlowThru)

The FlowThru connection diverts system water into and more importantly out of the tank while the pump is running. This constant flushing ensures that the water in the tank remains fresh and eliminates the risk of stagnant water during normal system operation.

See figs 2 and 3.

GT-C (composite tank)

The GT-C pressure tank is a lightweight pressure tank. The diaphragm is a chlorine-resistant 100 % butyl diaphragm with a precision-moulded copolymer polypropylene liner for superior air and water separation. This design allows each tank size to have a properly sized water chamber matched to the drawdown performance of that tank.

GT-CF (composite tank with FlowThru)

The FlowThru connection diverts system water into and more importantly out of the tank while the pump is running. This constant flushing ensures that the water in the tank remains fresh and eliminates the risk of stagnant water during normal system operation.

See figs 2 and 3.

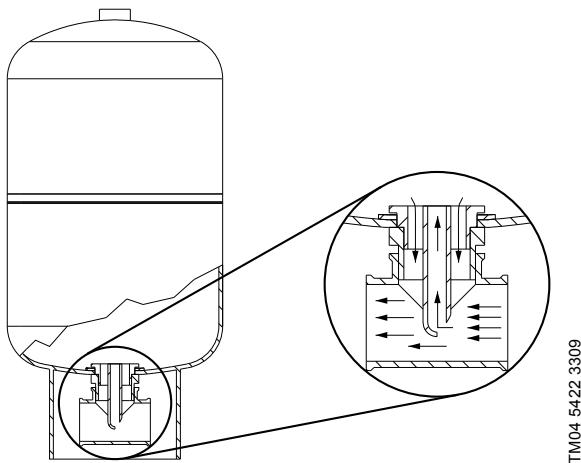


Fig. 2 Illustration of the FlowThru function

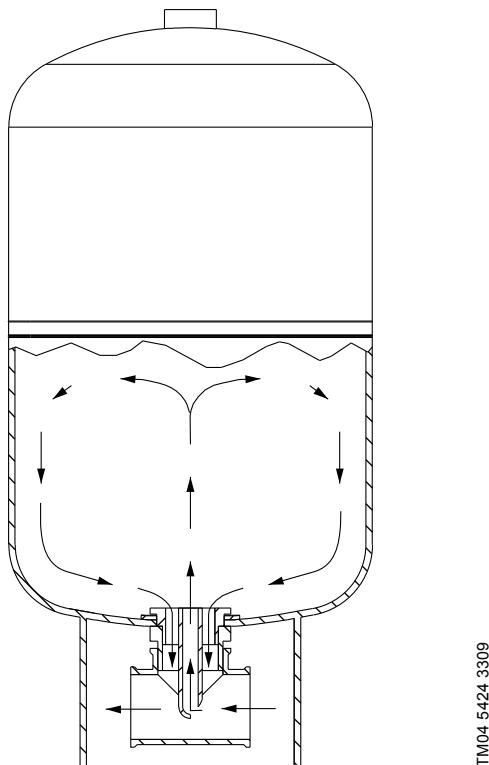


Fig. 3 Illustration of the FlowThru principle

Sizing

Tank sizes not exceeding 450 litres

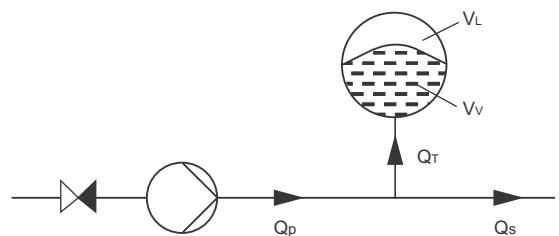
For tank sizes not exceeding 450 litres, use the diagram below to select the optimum tank size. All you need to know is the cut-in pressure and the flow.

The diagram below is based on the following values:

- differential pressure: 1 bar
- number of starts/stops per hour: 20
- constant for tank pre-charge pressure: 0.9.

Tank sizes exceeding 450 litres

Tank sizes exceeding 450 litres should be calculated from the formula below.



TM04 5567 3409

Fig. 4 Calculation of volume

$$V_0 = \frac{1000 \times Q_s \times (p_1 + 1) \times (p_2 + 1)}{4 \times N \times (p_0 + 1) \times (p_2 - p_1)}$$

Legend

V_0 = tank volume [litres]

V_L = air volume in tank [litres]

V_v = water volume in tank [litres]

Q_s = mean flow rate [m^3/h]

p_1 = cut-in pressure [bar]

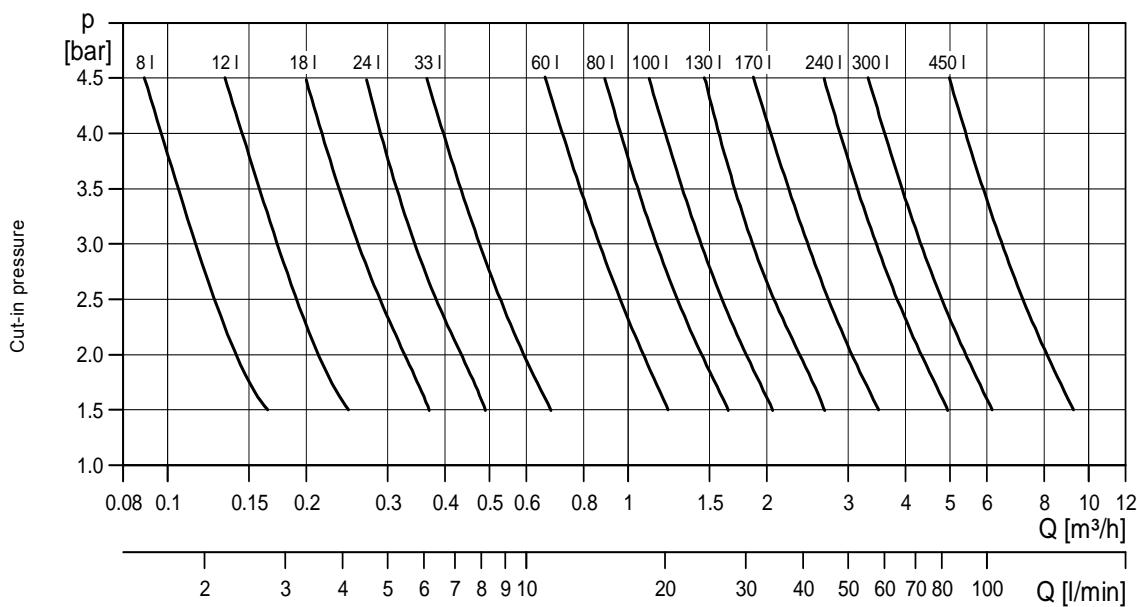
p_2 = cut-out pressure [bar]

p_0 = pre-charge pressure, tank [bar]

Q_p = flow, pump [m^3/h]

Q_T = flow, pressure tank [m^3/h]

N = maximum number of starts/stops per hour



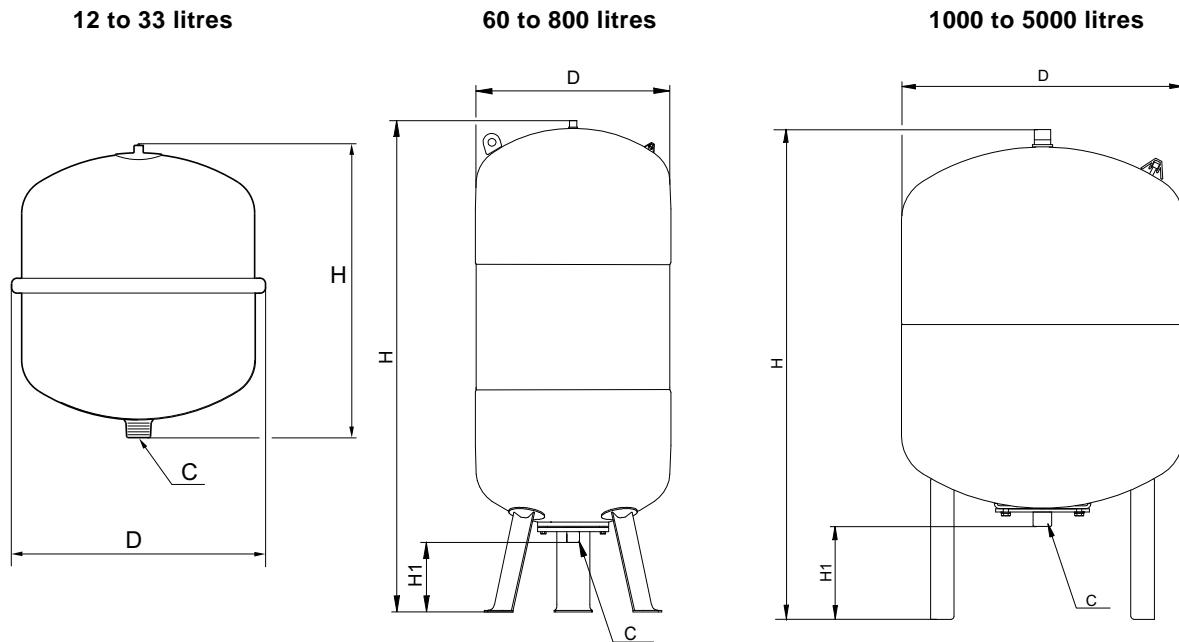
TM02 8938 2405

Fig. 5 Tank size in relation to cut-in pressure and flow

GT-U, 10 bar

Vertical installation, maximum pressure 10 bar, pre-charge pressure 4 bar

Dimensions, weights and product numbers



TM03 1681 2809 - TM03 8257 2809 - TM03 8258 2809

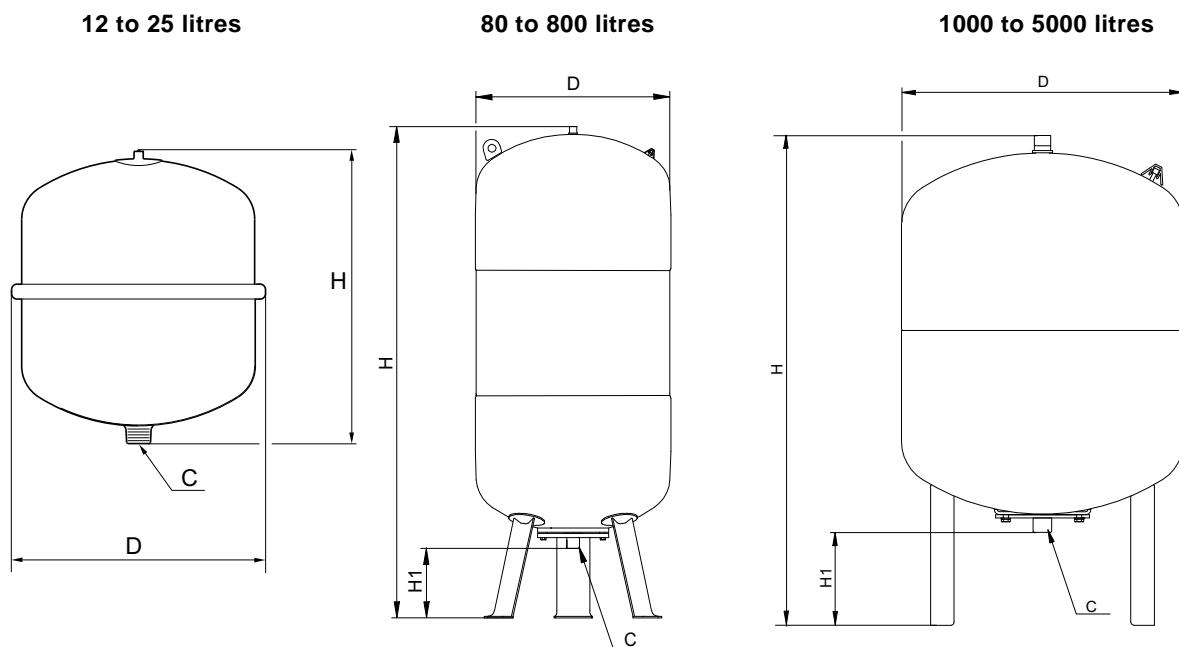
Fig. 6 Dimensional sketches

Tank type	Size [l]	Dimensions [mm]				Gross weight [kg]			Product number	
		D	H	H1	C	Stainless- steel flange	Coated flange	Replaceable bladder	Stainless-steel flange	Coated flange
GT-U-12 PN 10 G 3/4 V	12	280	310	-	G 3/4	2.5	-	-	96989120	-
GT-U-25 PN 10 G 3/4 V	25	280	500	-	G 3/4	5.5	-	-	96573253	-
GT-U-33 PN 10 G 3/4 V	33	354	450	-	G 3/4	6.7	-	-	96573254	-
GT-U-60 PN 10 G 3/4 V	60	409	740	-	G 3/4	14.3	-	-	96989123	-
GT-U-80 PN 10 G 1 V	80	480	730	150	G 1	26	17	•	96573255	96573266
GT-U-100 PN 10 G 1 V	100	480	840	150	G 1	30	22	•	96573257	96573267
GT-U-200 PN 10 G 1 1/4 V	200	634	980	145	G 1 1/4	50	50	•	96573258	96573268
GT-U-300 PN 10 G 1 1/4 V	300	634	1267	145	G 1 1/4	50	55	•	96573259	96573269
GT-U-400 PN 10 G 1 1/4 V	400	740	1245	135	G 1 1/4	76	76	•	96603444	96603450
GT-U-500 PN 10 G 1 1/4 V	500	740	1485	135	G 1 1/4	85	78	•	96573260	96573280
GT-U-600 PN 10 G 1 1/2 V	600	740	1859	265	G 1 1/2	161	161	•	96603445	96603451
GT-U-800 PN 10 G 1 1/2 V	800	740	2324	265	G 1 1/2	187	200	•	96603446	96603452
GT-U-1000 PN 10 G 1 1/2 V	1000	740	2604	265	G 1 1/2	258	258	•	96603447	96603453
GT-U-1500 PN 10 DN 65 V	1500	1200	2010	290	DN 65	-	535	•	-	96573283
GT-U-2000 PN 10 DN 65 V	2000	1200	2470	290	DN 65	-	710	•	-	96573284
GT-U-3000 PN 10 DN 65 V	3000	1500	2520	320	DN 65	-	1050	•	-	96573285
GT-U-4000 PN 10 DN 150 V	4000	1500	3095	320	DN 65	-	1140	•	-	96603454
GT-U-5000 PN 10 DN 150 V	5000	1500	3630	320	DN 65	-	1350	•	-	96603456

Note: For some GT-U tanks, the bladder is available as a spare part. The part number can be found on Grundfos.com (WebCAPS).

GT-U, 16 bar

Vertical installation, maximum pressure 16 bar, pre-charge pressure 4 bar

Dimensions, weights and product numbers

TM03 1681 2809 - TM03 8257 2809 - TM03 8258 2809

Fig. 7 Dimensional sketches

Tank type	Size [l]	Dimensions [mm]				Gross weight [kg]		Replaceable bladder	Product number	
		D	H	H1	C	Stainless-steel flange	Coated flange		Stainless-steel flange	Coated flange
GT-U-12 PN 16 G 3/4 V	12	280	310	-	G 3/4	3.6	-	-	96573348	-
GT-U-25 PN 16 G 3/4 V	25	280	500	-	G 3/4	9.0	-	-	96573349	-
GT-U-80 PN 16 G 1 V	80	480	730	150	G 1	22	22	•	96603410	96603420
GT-U-100 PN 16 G 1 V	100	480	835	150	G 1	29	36	•	96603411	96603421
GT-U-200 PN 16 G 1 1/4 V	180	634	970	145	G 1 1/4	58	49	•	96603413	96603422
GT-U-300 PN 16 G 1 1/4 V	300	634	1270	145	G 1 1/4	66	77	•	96603414	96603423
GT-U-400 PN 16 G 1 1/2 V	400	740	1395	135	G 1 1/2	117	215	•	96603415	96603424
GT-U-500 PN 16 G 1 1/2 V	500	740	1615	135	G 1 1/2	129	124	•	96603416	96603425
GT-U-600 PN 16 G 1 1/2 V	600	740	1860	265	G 1 1/2	173	161	•	96603417	96603426
GT-U-800 PN 16 G 1 1/2 V	800	740	2325	265	G 1 1/2	223	223	•	96603418	96603427
GT-U-1000 PN 16 G 1 1/2 V	1000	740	2604	265	G 1 1/2	275	264	•	96603419	96603428
GT-U-1500 PN 16 DN 65 V	1500	1200	2030	290	DN 65	-	694	•	-	96603429
GT-U-2000 PN 16 DN 65 V	2000	1200	2500	290	DN 65	-	904	•	-	96603430
GT-U-3000 PN 16 DN 65 V	3000	1500	2570	320	DN 65	-	1249	•	-	96603431
GT-U-4000 PN 16 DN 150 V	4000	1500	3145	320	DN 65	-	1364	•	-	96603432
GT-U-5000 PN 16 DN 150 V	5000	1500	3680	320	DN 65	-	1616	•	-	96603433

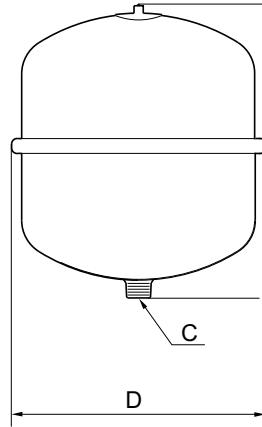
Note: For some GT-U tanks, the bladder is available as a spare part. The part number can be found on Grundfos.com (WebCAPS).

GT-U, 25 bar

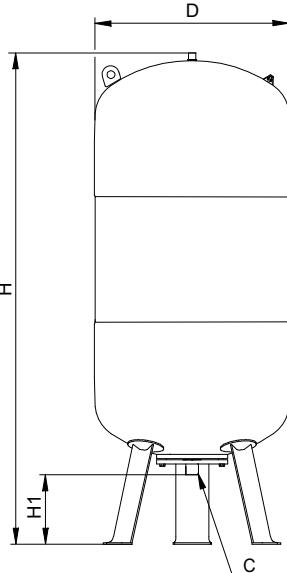
Vertical installation, maximum pressure 25 bar, pre-charge pressure 4 bar

Dimensions, weights and product numbers

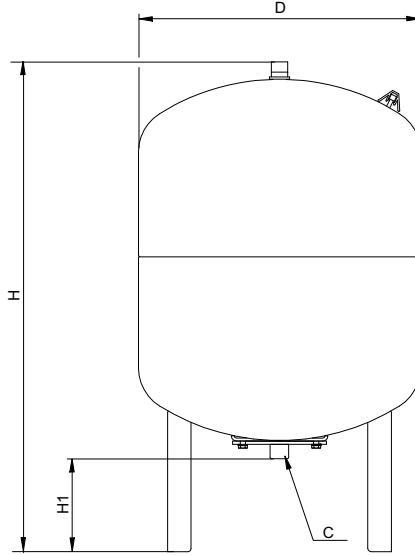
8 litres



80 to 800 litres



1000 to 3000 litres



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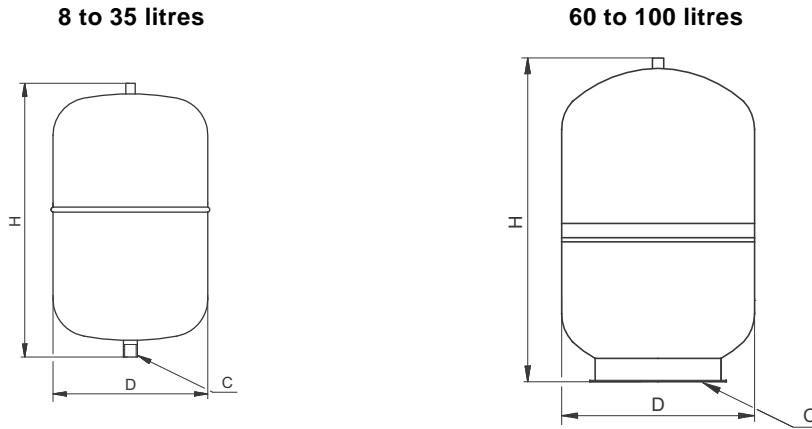
Fig. 8 Dimensional sketches

Tank type	Size [l]	Dimensions [mm]				Gross weight [kg]	Replaceable bladder	Product number	
		D	H	H1	C			Stainless-steel flange	Coated flange
GT-U-8 PN 25 G 3/4 V	8	206	320	-	G 3/4	8	-	96573347	-
GT-U-80 PN 25 DN 50 V	80	450	925	185	DN 50	107	•	-	96603459
GT-U-120 PN 25 DN 50 V	120	450	1235	185	DN 50	142	•	-	96603460
GT-U-180 PN 25 DN 50 V	180	450	1515	185	DN 50	179	•	-	96603462
GT-U-300 PN 25 DN 50 V	300	750	1275	200	DN 50	201	•	-	96603463
GT-U-400 PN 25 DN 50 V	400	750	1395	200	DN 50	302	•	-	96603465
GT-U-600 PN 25 DN 50 V	600	750	1860	185	DN 50	404	•	-	96603466
GT-U-800 PN 25 DN 50 V	800	750	2260	185	DN 50	150	•	-	96603468
GT-U-1000 PN 25 DN 50 V	1000	750	2760	185	DN 50	559	•	-	96603469
GT-U-1500 PN 25 DN 65 V	1500	1200	2050	285	DN 65	911	•	-	96967953
GT-U-2000 PN 25 DN 65 V	2000	1200	2500	285	DN 65	1184	•	-	96967955
GT-U-3000 PN 25 DN 65 V	3000	1500	2520	315	DN 65	1632	•	-	96967957

Note: For some GT-U tanks, the bladder is available as a spare part. The part number can be found on Grundfos.com (WebCAPS).

GT-H, 10 bar

Vertical installation

Dimensions, weights and product numbers

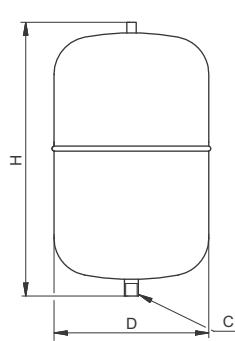
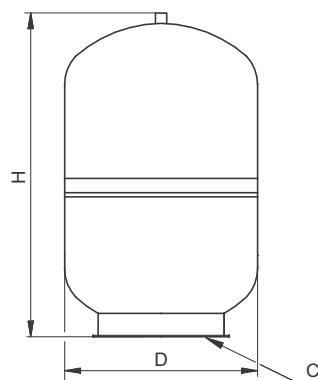
TM02 9086 2809 - TM02 9087 2809

Fig. 9 Dimensional sketches

Tank type	Size [l]	Dimensions [mm]			Gross weight [kg]	Product number
		D	H	C		
GT-H-8 PN 10 G 3/4 V	8	203	311	G 3/4	2.6	96528335
GT-H-8 PN 10 G 1 V	8	203	311	G 1	2.6	96526321
GT-H-12 PN 10 G 3/4 V	12	229	364	G 3/4	3.1	96528336
GT-H-12 PN 10 G 1 V	12	229	364	G 1	3.1	97506558
GT-H-18 PN 10 G 3/4 V	18	279	366	G 3/4	5.0	96526322
GT-H-18 PN 10 G 1 V	18	279	366	G 1	5.0	96528337
GT-H-24 PN 10 G 3/4 V	24	290	445	G 3/4	5.1	97506559
GT-H-24 PN 10 G 1 V	24	290	445	G 1	5.1	96528339
GT-H-35 PN 10 G 3/4 V	35	318	481	G 3/4	7.5	96526002
GT-H-35 PN 10 G 1 V	35	318	481	G 1	7.5	96528340
GT-H-60 PN 10 G 1 V	60	388	528	G 1	10	96528341
GT-H-80 PN 10 G 1 V	80	388	626	G 1	16.7	96894291
GT-H-100 PN 10 G 1 V	100	430	804	G 1	18.9	97527968

GT-H, 16 bar

Vertical installation

Dimensions, weights and product numbers**8 to 35 litres****60 to 80 litres**

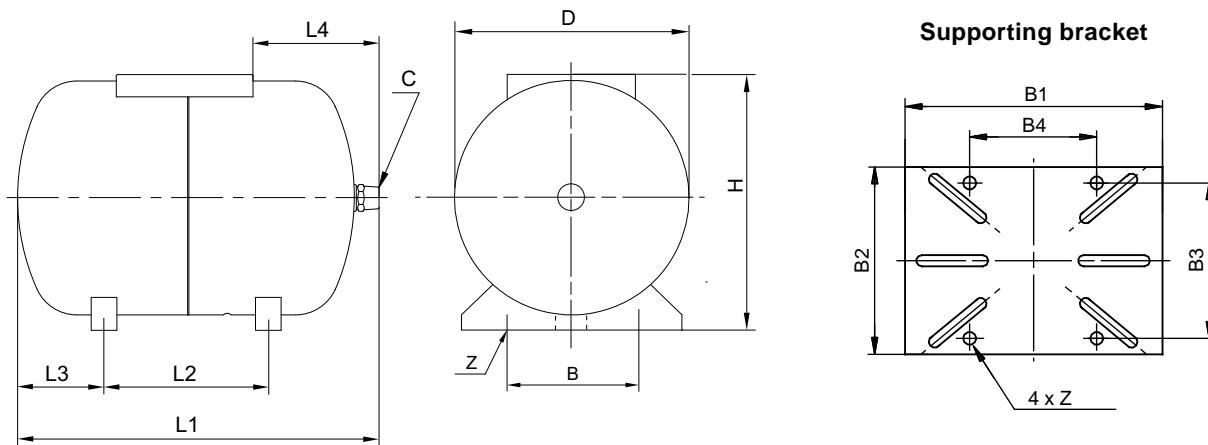
TM02 908962806 - TM02 90872809

Fig. 10 Dimensional sketches

Tank type	Size [l]	Dimensions [mm]			Gross weight [kg]	Product number
		D	H	C		
GT-H-8 PN 16 G 3/4 V	8	203	311	G 3/4	2.6	96528356
GT-H-12 PN 16 G 3/4 V	12	229	364	G 3/4	3.1	96528357
GT-H-18 PN 16 G 1 V	18	279	366	G 1	5.0	96528358
GT-H-24 PN 16 G 1 V	24	290	445	G 1	5.1	96528360
GT-H-35 PN 16 G 1 V	35	318	481	G 1	7.5	96528361
GT-H-60 PN 16 G 1 V	60	388	528	G 1	10	96528362
GT-H-80 PN 16 G 1 V	80	388	626	G 1	16.7	96528363

GT-H, 10 bar

Horizontal installation

Dimensions, weights and product numbers

TM02 9085 2809 - TM01 1611 1501

Fig. 11 Dimensional sketches

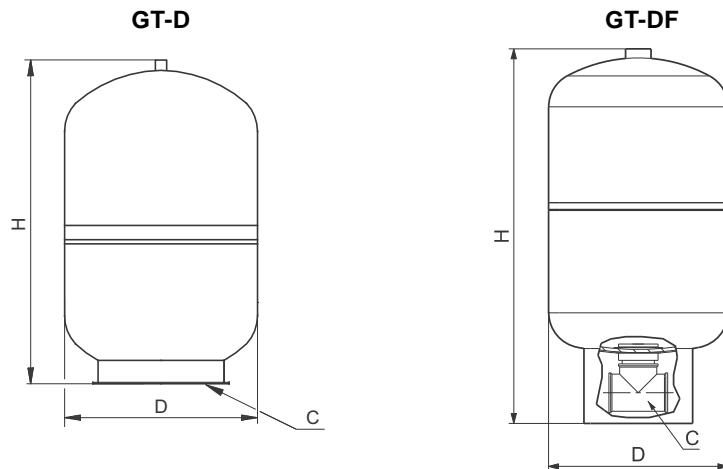
Tank type	Size [l]	Dimensions [mm]								Gross weight [kg]	Product number
		D	H	B	L1	L2	L3	L4	Z		
GT-H-24 PN 10 G 1 H	24	289	444	235	447	250	84	156	4	G 1	6.5
GT-H-60 PN 10 G 1 H	60	414	528	342	532	299	102	199	4	G 1	12.8
GT-H-80 PN 10 G 1 H	80	414	724	342	730	229	201	306	4	G 1	18.0

Supporting bracket

Tank type	Size [l]	Dimensions [mm]					Z
		B1	B2	B3	B4		
GT-H-24 PN 10 G 1/4 H	24	220	165	139	107	10	
GT-H-60 PN 10 G 1/4 H	60	220	165	139	107	9	
GT-H-80 PN 10 G 1 H	80	220	165	139	107	9	

GT-D, 10 bar, GT-DF, 8.6 bar

Vertical installation

Dimensions, weights and product numbers

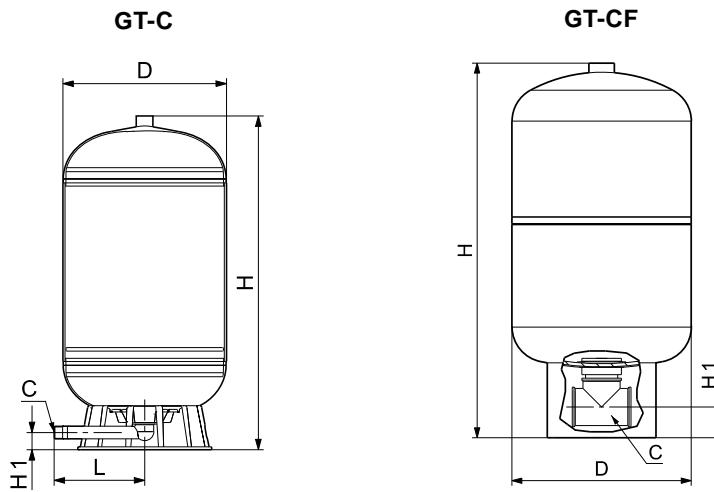
TN02 9087 2809 - TN04 5936 4409

Fig. 12 Dimensional sketches

Tank type	Size [l]	Dimensions [mm]			Gross weight [kg]	Product number
		D	H	C		
GT-D						
GT-D-60 PN 10 G 1 V	60	406	571	G 1	13.5	96748301
GT-D-80 PN 10 G 1 V	80	388	787	G 1	18.0	96528342
GT-D-100 PN 10 G 1 V	100	406	880	G 1	16.0	96528343
GT-D-130 PN 10 G 1 V	130	406	1081	G 1	23.0	96528344
GT-D-170 PN 10 G 1 1/4 V	170	533	921	G 1 1/4	31.0	96528345
GT-D-240 PN 10 G 1 1/4 V	240	533	1219	G 1 1/4	38.0	96528346
GT-D-300 PN 10 G 1 1/4 V	300	533	1575	G 1 1/4	45.0	96528347
GT-D-450 PN 10 G 1 1/4 V	450	660	1505	G 1 1/4	70.0	96528348
GT-DF						
GT-DF-80 PN 8.6 G 1 1/4 V	80	406	744	G 1 1/4	16.4	96980804
GT-DF-170 PN 8.6 G 1 1/4 V	170	533	921	G 1 1/4	30.9	96980807
GT-DF-325 PN 8.6 G 1 1/4 V	325	660	1130	G 1 1/4	55.5	96980808

GT-C, GT-CF, 8.6 bar

Vertical installation

Dimensions, weights and product numbers

TM04 5588 3509 - TM04 5423 3309

Fig. 13 Dimensional sketches

Tank type	Size [l]	Dimensions [mm]					Gross weight [kg]	Product number
		D	H	H1	L	C		
GT-C								
GT-C-60 PN 8.6 G 1 V	60	418	650	45	2388	G 1	5.0	96733303
GT-C-80 PN 8.6 G 1 V	80	418	852	45	2388	G 1	6.6	96733304
GT-C-100 PN 8.6 G 1 V	100	418	967	45	2388	G 1	8.0	96733305
GT-C-130 PN 8.6 G 1 V	130	418	1227	45	2388	G 1	9.9	96733306
GT-C-200 PN 8.6 G 1 1/4 V	200	542	1098	57	3023	G 1 1/4	16.5	96733307
GT-C-250 PN 8.6 G 1 1/4 V	250	542	1303	57	3023	G 1 1/4	21.7	96733308
GT-C-300 PN 8.6 G 1 1/4 V	300	542	1644	57	3023	G 1 1/4	28.4	96733309
GT-C-350 PN 8.6 G 1 1/4 V	350	614	1448	57	3401	G 1 1/4	31.2	96733310
GT-C-450 PN 8.6 G 1 1/4 V	450	614	1831	57	3401	G 1 1/4	42.1	96733311
GT-CF								
GT-CF-60 PN 8.6 G 1 1/4 V	60	419	640	45	-	G 1 1/4	8.6	96980809
GT-CF-80 PN 8.6 G 1 1/4 V	80	419	841	45	-	G 1 1/4	10.9	96980810
GT-CF-150 PN 8.6 G 1 1/4 V	150	614	747	57	-	G 1 1/4	15.9	96980811
GT-CF-200 PN 8.6 G 1 1/4 V	200	544	1090	57	-	G 1 1/4	18.6	96980822

3. Heating

Applications

The GT-HR tanks are conventional diaphragm-type expansion tanks ranging from 8 to 1000 litres for 6 bar working pressure for closed heating systems and chilled-water applications. These tanks can be incorporated in an expansion system in a tiny household or a large multi-storey building.

Typical applications:

- domestic-heating and chilled-water systems
- commercial-building heating and chilled-water systems
- industrial-heating and chilled-water systems.

GT-HR tanks can be used with any Grundfos pump.

Tank range

The GT-HR tanks are available in sizes ranging from 8 to 1000 litres and are suitable for vertical installation.

The tanks have a non-replaceable diaphragm that is pre-charged with nitrogen (1.5 bar).

The tanks have a non-toxic butyl rubber diaphragm, dividing the tank chamber into two compartments. The upper compartment contains compressed nitrogen. The lower compartment has a liner of polypropylene (PP) and is filled with water from the pump.

Sizing

The required tank volume can be calculated from the formula below:

$$V_e = \frac{(0.07 \times t - 2.5) \times (p_s + 1)}{100 \times (p_s - p_e)} \times V \text{ [litres]}$$

V_e	Tank volume [litres]
t	Maximum temperature in system [$^{\circ}\text{C}$]
p_s	Maximum system pressure [bar] (safety valve pressure)
p_e	Pre-charge pressure [bar]
V	Total volume of water in system [litres]

If the necessary information required to calculate the tank according to the formula is not available, the sizing of the tank can be based on heat input to the installation and maximum system pressure.

Pre-conditions

Heating systems: flat radiators, specific water volume of 11.3 l/kW, flow-pipe temperature of 70 $^{\circ}\text{C}$ and return-pipe temperature of 50 $^{\circ}\text{C}$.

Maximum system pressure [bar]	6	
Pre-charge pressure [bar]	3	Tank size [l]
4		8
8		12
16		18
27		25
44		35
60		50
100		80
120		100
170		140
250		200
310		250
370		300
490		400
620		500
740		600
990		800
1230		1000

Grundfos recommendation

- Set the tank pre-charge pressure to at least 0.2 bar above the static pressure of the heating system.
- The tank pre-charge pressure should not be lower than 1 bar.

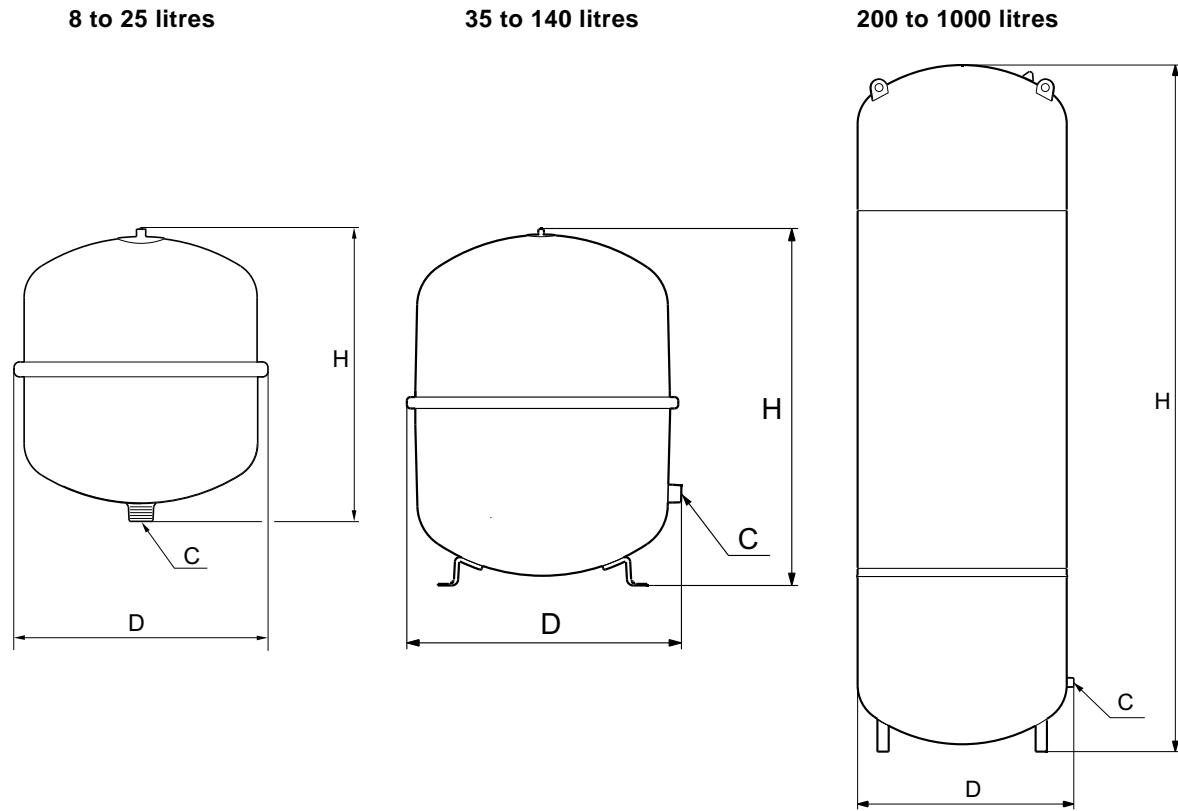
Sizing example

A heating system has a heat input of 160 kW, the maximum system pressure is 6 bar, and the heating system will be pre-charged by 3 bar.

Use the column for 6 bar maximum system pressure. The nearest value above 160 kW is 170 kW. This corresponds to a tank size of 140 litres.

GT-HR, 6 bar

Vertical installation

Dimensions, weights and product numbers

TM03 1681 2809 - TM03 1682 2809 - TM03 1694 2809

Fig. 14 Dimensional sketches

Tank type	Size [l]	Dimensions [mm]			Gross weight [kg]	Product number
		D	H	C		
GT-HR-8 PN 6 G 3/4 V	8	272	233	G 3/4	1.9	96573376
GT-HR-12 PN 6 G 3/4 V	12	272	315	G 3/4	2.6	96573377
GT-HR-18 PN 6 G 3/4 V	18	308	360	G 3/4	3.5	96573378
GT-HR-24 PN 6 G 3/4 V	24	308	480	G 3/4	4.6	96573390
GT-HR-35 PN 6 G 3/4 V	35	376	465	G 3/4	5.4	96573393
GT-HR-50 PN 6 R 3/4 V	50	441	495	R 3/4	12.5	96573395
GT-HR-80 PN 6 R 1 V	80	512	570	R 1	17.0	96573396
GT-HR-100 PN 6 R 1 V	100	512	680	R 1	20.5	96573397
GT-HR-140 PN 6 R 1 V	140	512	890	R 1	28.6	96573398
GT-HR-200 PN 6 R 1 V	200	634	785	R 1	36.7	96573399
GT-HR-250 PN 6 R 1 V	250	634	915	R 1	45.0	96573400
GT-HR-300 PN 6 R 1 V	300	634	1085	R 1	52.0	96573401
GT-HR-400 PN 6 R 1 V	400	740	1075	R 1	65.0	96573403
GT-HR-500 PN 6 R 1 V	500	740	1295	R 1	79.0	96573404
GT-HR-600 PN 6 R 1 V	600	740	1530	R 1	85.0	96573405
GT-HR-800 PN 6 R 1 V	800	740	1990	R 1	103	96573407
GT-HR-1000 PN 6 R 1 V	1000	740	2430	R 1	120	96573408