Hydronic Kits
HPT



Tank units for chilled water Hydronic systems: HPT

The HPT units are hydraulic units with buffer tanks designed to reduce the production time of conditioning and cooling systems. They can be equipped with all different kinds of water coolers.

Standard equipment

Capacity: from 100 to 2.500 l
Tank material: carbon steel
Fluid types:
- water
- Ethylene glycol up to 40%
- Propylene glycol up to 40%

Insulation: anti-condensate elastomer
Pumps: 1 or 2
Execution: Layout 1 or 2
Inverter: with or without



Standard equipment usage limit

Fluid temperature	Environment temp.	Max. pressure
5°C / +60°C	10°C / +40°C	3 bar

Special equipment usage limit available on configurator (see page 108)

Fluid temperature	Environment temp.	Max. pressure
-20°C / +60°C	-20 / +40°C	3 bar

The HPT units are made of:

- carbon steel tank and tubes insulated with anti-condensate elastomer
- Centrifugal single or double pump with a shut-off valve
- Expansion vessel
- Safety valve
- Deaerator
- Manometer
- Fill-up/drain valve
- Base and self-supporting panels made of galvanized and coated steel sheets, suitable for outdoor installations
- Switchboard (standard or with inverter)

Accessories: For the accessories list see pag. 128

Start-up: the first start-up is recommended. See page 361

Upon request, it is possible to produce versions with special equipment to operate at temperatures and pressures outside the standard usage limits. These equipments include, for example, increased insulation, antifreeze kits, pumps for low temperature operation, stainless steel connections and tank.

Standard switchboard

Switchboard with possibility to alternate pumps with every start-up (2 pumps verision), to start-up the backup pump in case of breakdown (2 pumps version), magnetothermic protection, free contacts to detect alarms and turned-on pumps, free contact to control remotely on/off pumps, protection category IP55.
Electric data: 400V/3/50Hz

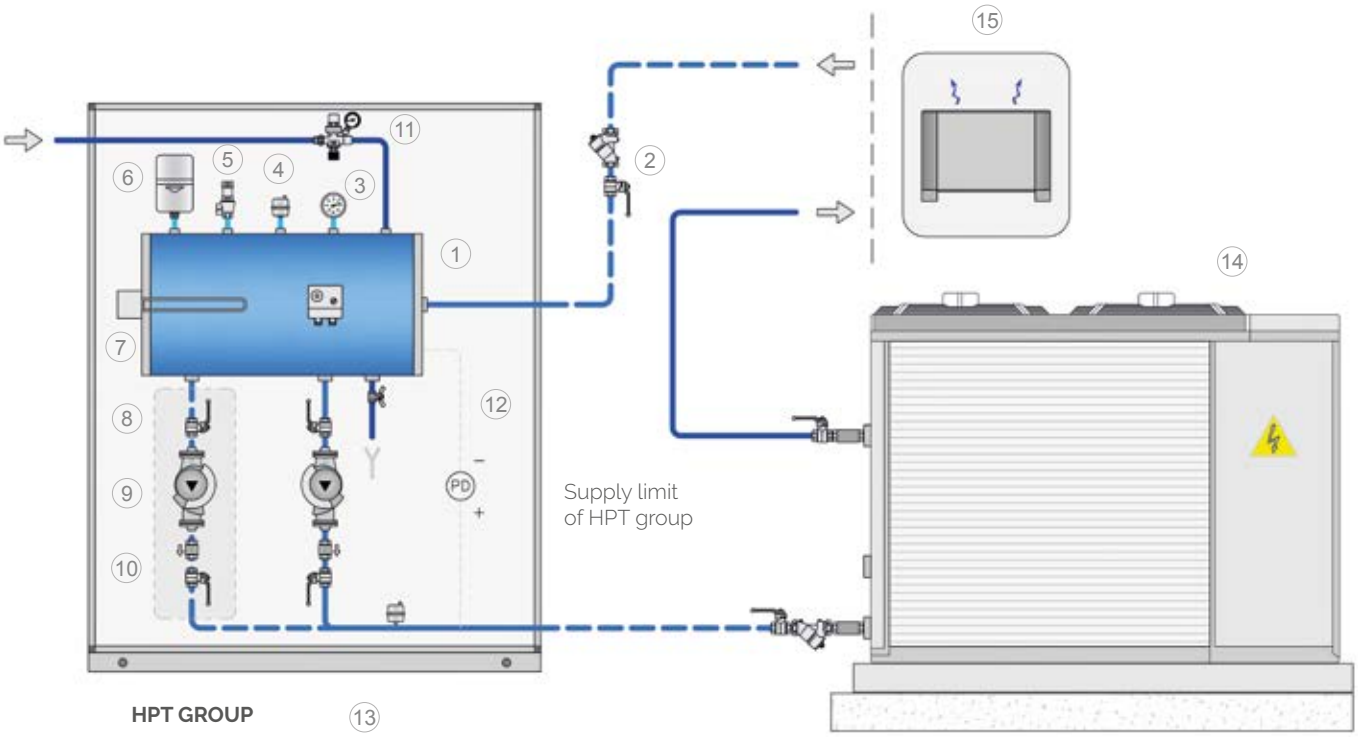
Switchboard with inverter

Each pump can be managed by an inverter. Units equipped with inverters have a pressure transducer which communicates with the inverter through a 4-20 mA signal. All adjustment parameters are pre-loaded during the test run at the company. The user must choose only the desired pressure value set point.
It is possible to remotely control pump 1 and 2. Free contacts available used to verify pumps status.

HPT hydronic systems
Layout 1 - STANDARD

Layout 1 Features: Hydronic kit, chiller and system connected in series, hence the water flow is constant throughout the plant.

NOTE: All HPT Fiorini standard kit kits are Layout 1
NOTE: Layout 1 is available as standard with and without inverter



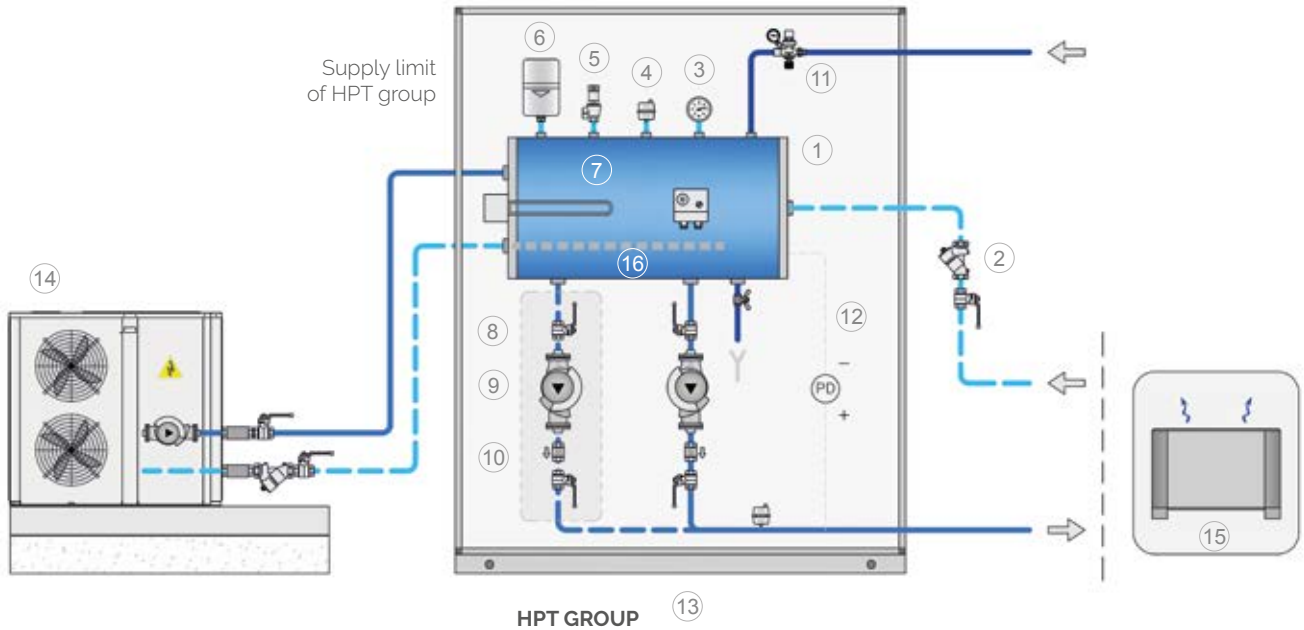
Legend

1. Storage tank
2. Y filter. Optional, supplied non-assembled
3. Manometer
4. Deaerator
5. Safety valve
6. Expansion vessel
7. Kit with electric anti-freeze resistance and anti-freeze thermostat (optional)
8. On-off valve
9. Circulator
10. Check valve (only version with 2 pumps)
11. Automatic filling unit
12. Differential pressure switch (optional)
13. Self-supporting sturdy structure for outside placement
14. Chiller
15. Device

HPT hydronic system
Layout 2 - SPECIAL VERSION

Layout 2 Features: Hydronic Kit and Chiller create the primary circuit, Hydronic Kit and Plant create the secondary circuit. Hence, the two circuits have independent flow rates.

NOTE: Pump unit supplied only on one of the two circuits.
NOTE: Layout 2 is available as standard with and without inverter



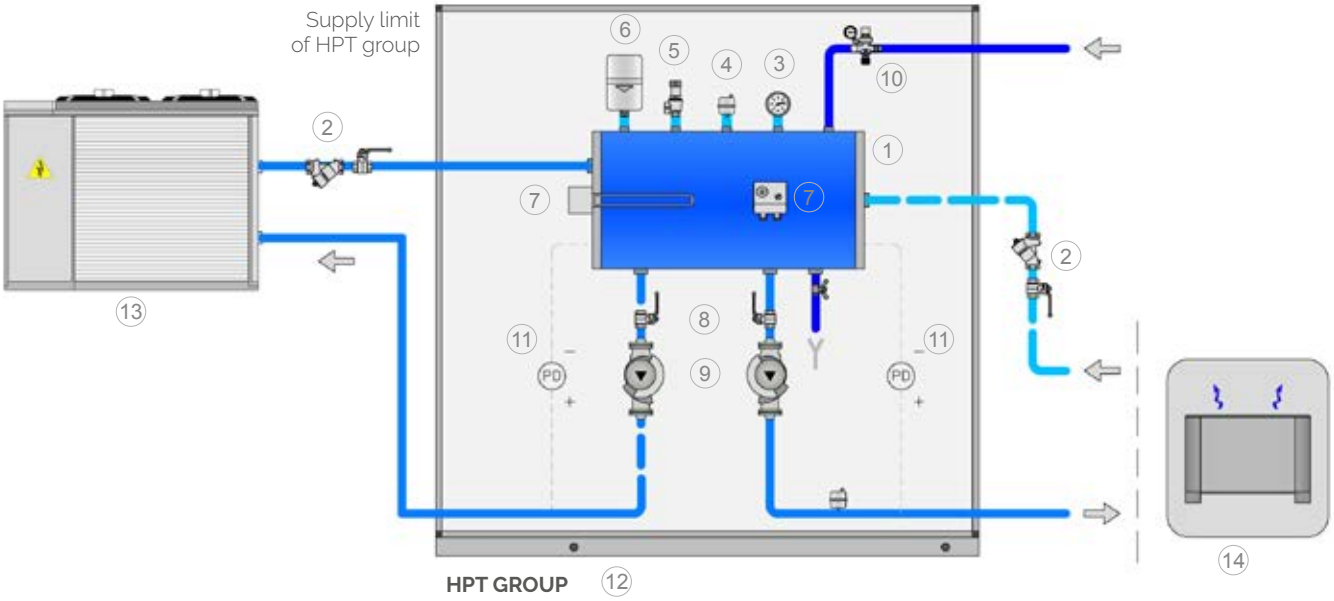
Legend

1. Storage tank
2. Y filter. Optional, supplied non-assembled
3. Manometer
4. Deaerator
5. Safety valve
6. Expansion vessel
7. Kit with electric anti-freeze resistance and anti-freeze thermostat (optional)
8. On-off valve
9. Circulator
10. Check valve (only version with 2 pumps)
11. Automatic filling unit
12. Differential pressure switch (optional)
13. Self-supporting sturdy structure for outdoor placement
14. Chiller
15. Device

HPT hydronic system
Layout 3 - SPECIAL VERSION

Layout 3 features: Hydronic Kit and Chiller create the primary circuit, Hydronic Kit and the system create the independent secondary circuit. Then the two circuits have independent flow rates.

NOTE: Pump assembly supplied on both circuits.

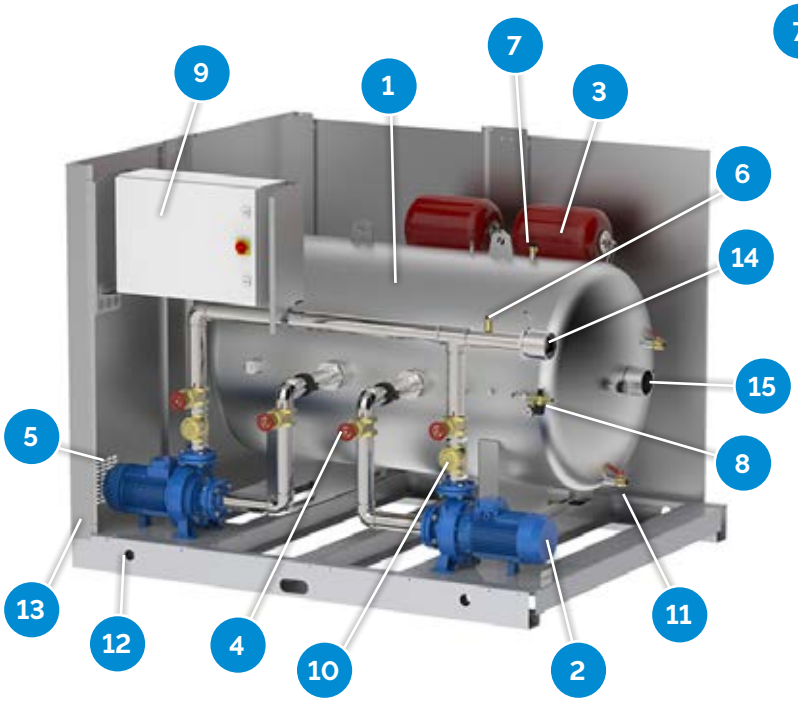


Legend

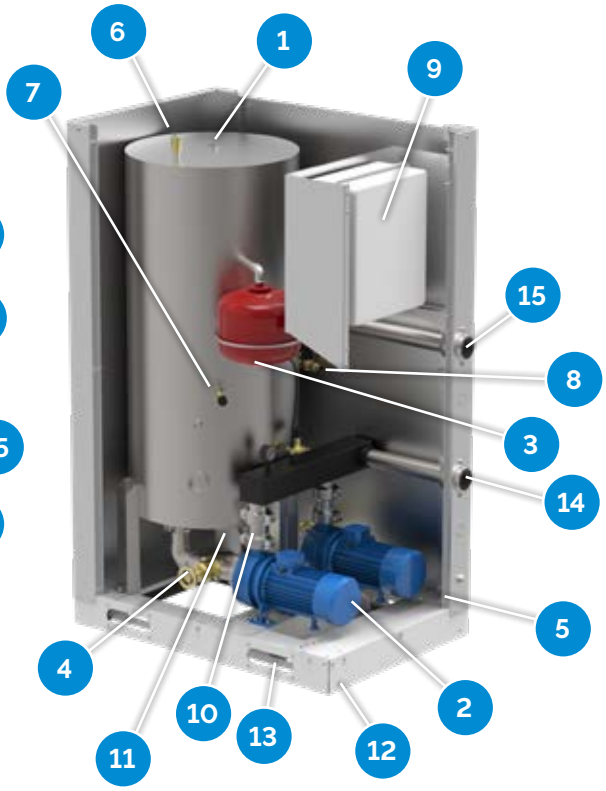
1. Storage tank
2. Y filter. Optional, supplied non-assembled
3. Manometer
4. Deaerator
5. Safety valve
6. Expansion vessel
7. Kit with electric anti-freeze resistance and anti-freeze thermostat (optional)
8. On-off valve
9. Circulator
10. Automatic filling unit
11. Differential pressure switch (optional)
12. Self-supporting sturdy structure for outside placement
13. Chiller
14. Device

Hydronic systems
HPT: components

Horizontal HPT



Vertical HPT

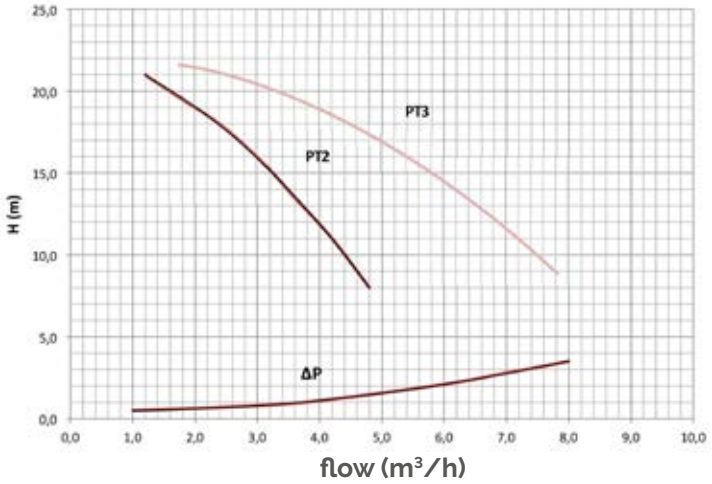


	Components
1	Tank
2	Circulator
3	Expansion vessel
4	On-off valve
5	Automatic ventilation system
6	Pressure relief valve
7	Safety valve
8	Automatic filling unit
9	Switchboard
10	Control valve (version with 2 pumps)
11	Drain
12	Anchoring point (4-6 holes m12/ ø14)
13	Inlet power grid
14	Water outlet
15	Water inlet

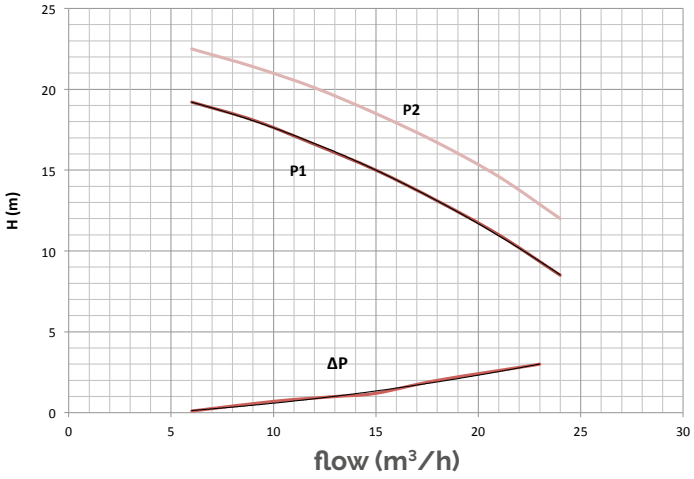
	Components
1	Tank
2	Circulator
3	Expansion vessel
4	On-off valve
5	Automatic ventilation system
6	Pressure relief valve
7	Safety valve
8	Automatic filling unit
9	Switchboard
10	Control valve (version with 2 pumps)
11	Drain
12	Inlet power grid
13	Jacking points
14	Water outlet
15	Water inlet

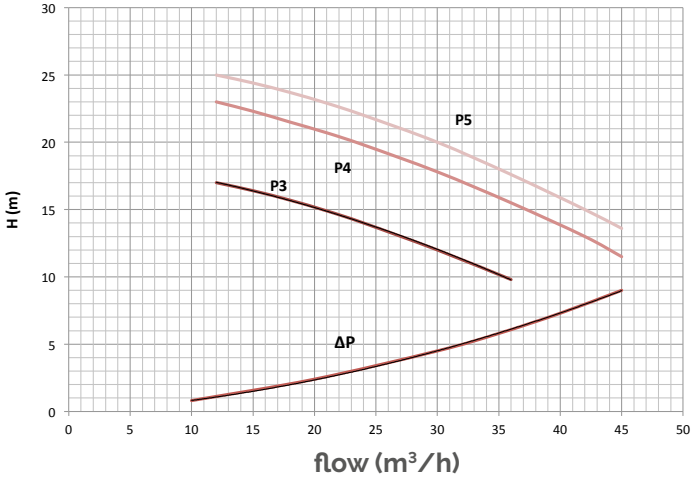
HPT hydronic systems
Prevalence and pressure loss curve

HPT-V 100-200



HPT 300-500

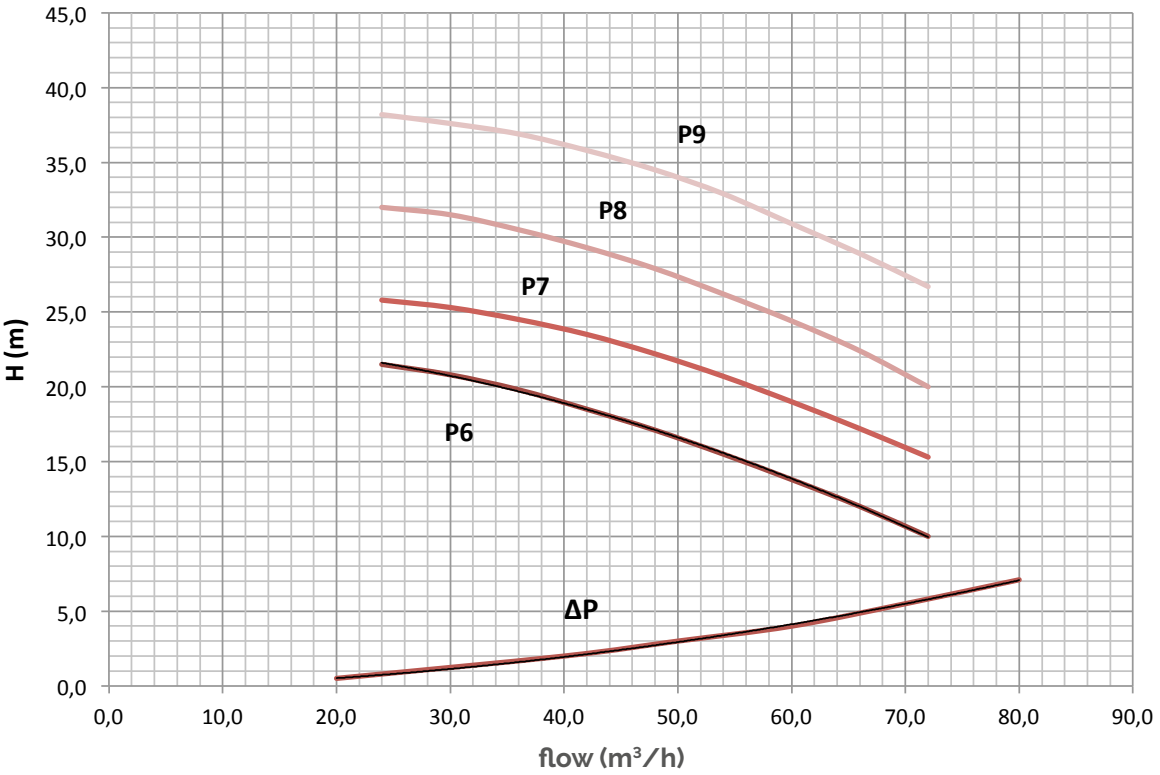


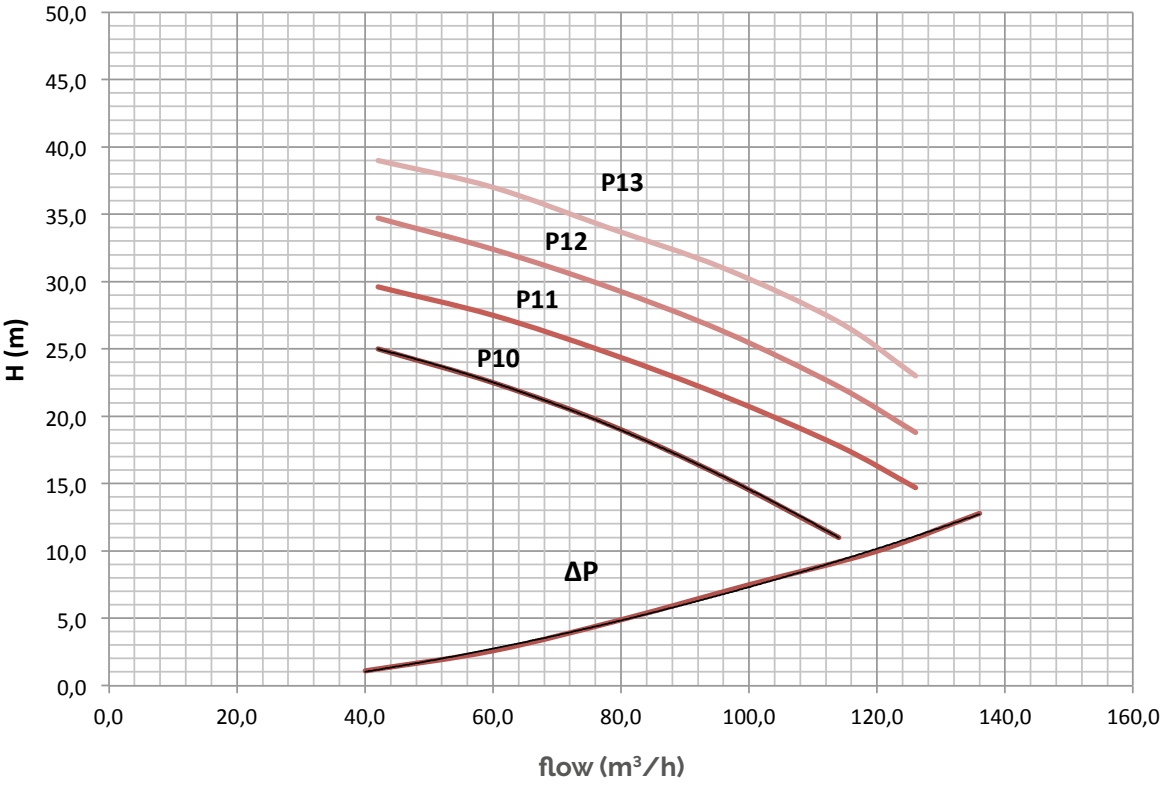


ΔP: pressure loss of the HPT unit

HPT hydronic systems
Prevalence and pressure loss curve

HPT 750-1000

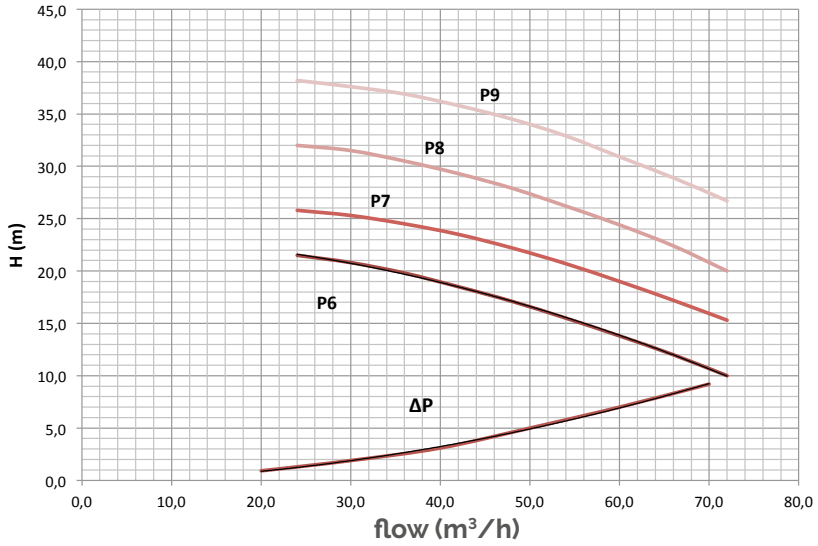


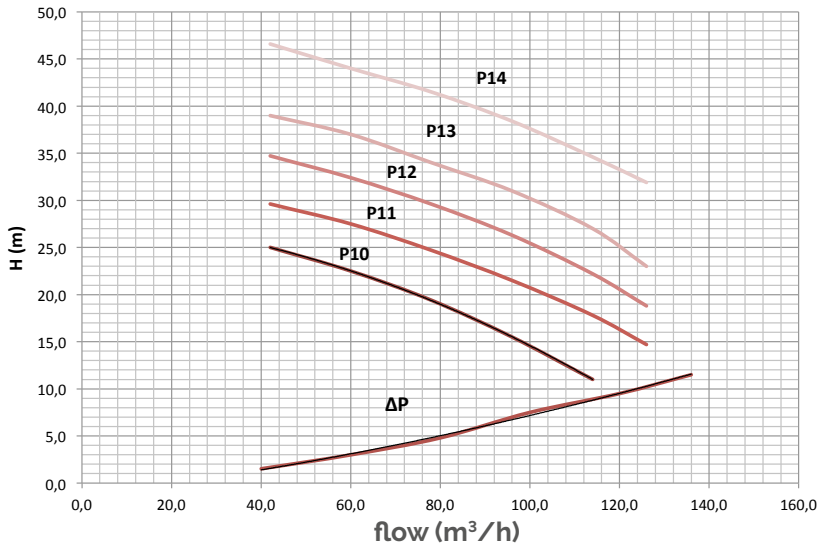


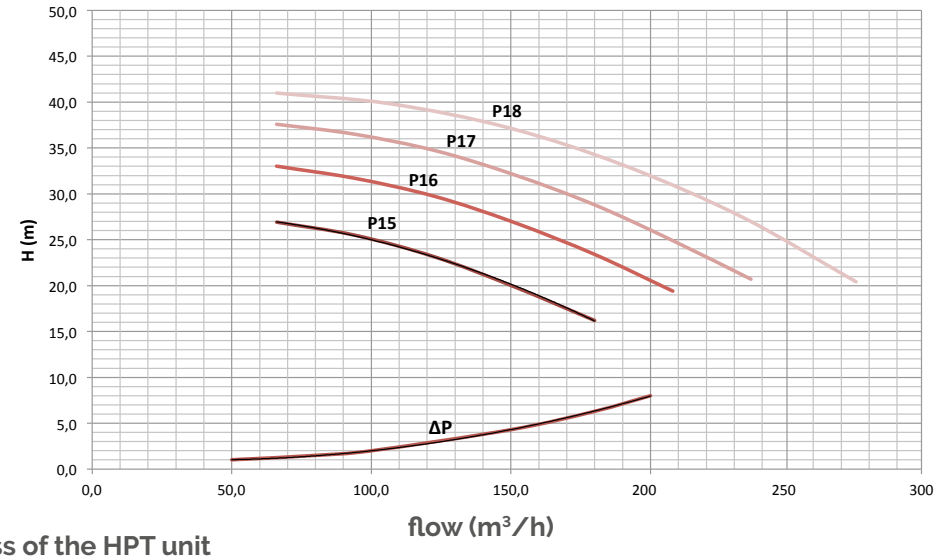
ΔP: pressure loss of the HPT unit

HPT hydronic systems
Prevalence and pressure loss curve

HPT 1500-2500



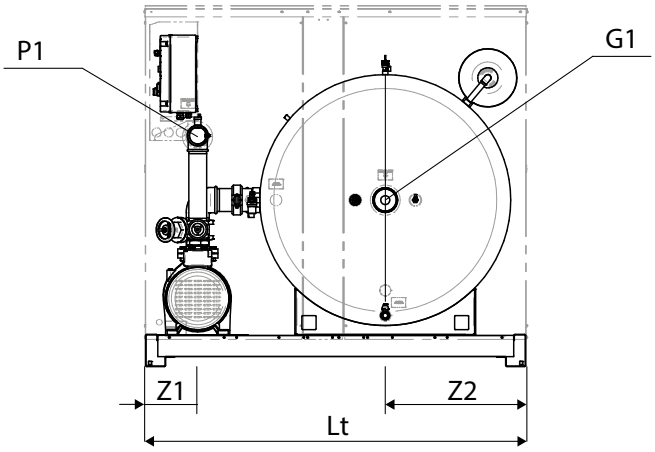


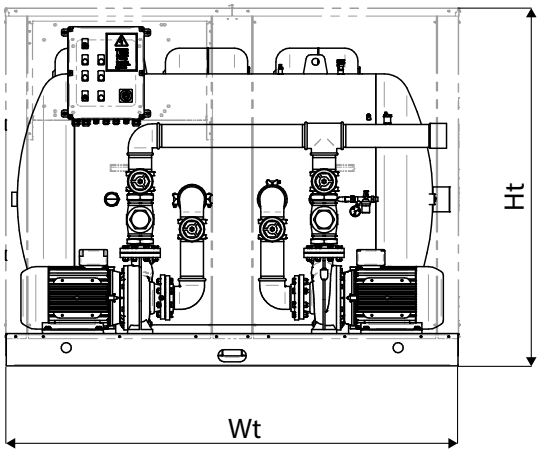


ΔP: pressure loss of the HPT unit

Hydronic systems
HPT: dimensions and connections

Horizontal version





Horizontal HPT dimensions

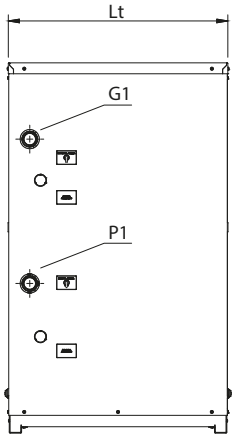
Capacity l	Wt mm	Lt mm	Ht mm	P1 mm	G1 mm	Z1 mm	Z2 mm	G1 inch	P1 inch
300	1504	1120	1265	738	490	212	388	2"1/2	2"1/2
500	1504	1120	1265	738	490	212	388	2"1/2	2"1/2
750	2044	1200	1510	940	604	185	440	3"	3"
1000	2044	1200	1510	940	604	185	440	3"	3"
1500	2260	1900	1782	1145	829	262	703	4"	4"
2500	2260	1900	1782	1145	829	262	703	4"	4"

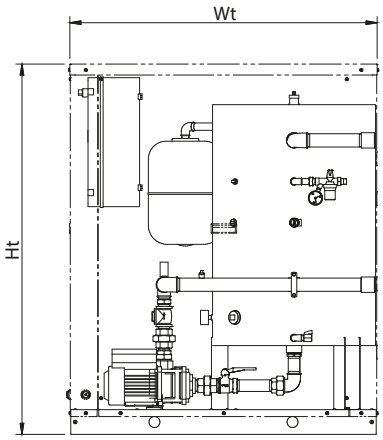
Couplings legend

G1	From plant threaded connection
P1	To energy source threaded connection

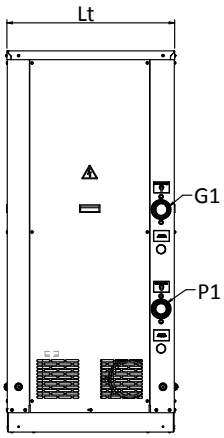
Vertical version

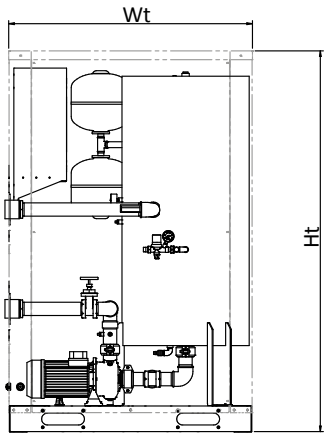
HPT 100-200





HPT 300





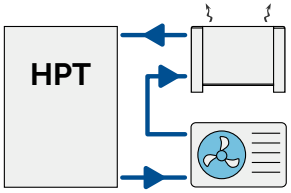
Vertical HPT dimensions

Capacity l	Wt mm	Lt mm	Ht mm	P1 mm	G1 mm	P1 inch	G1 inch
100	1120	800	1350	546	1002	1" 1/2	1" 1/2
200	1120	800	1350	546	1072	1" 1/2	1" 1/2
300	1100	760	1726	558	1008	2" 1/2	2" 1/2

Couplings legend

G1	From plant threaded connection
P1	To energy source threaded connection

HPT Layout 1 without Inverter



CHECK UPDATED PRICE LIST

go.fiorinigroup.it/pr

HPT	1 pump				2 pumps (1 redundant)						
Capacity	Model	Code	Price	Weight kg	Model	Code	Price	Weight kg	F.L.I kW	F.L.A. (400/3/50) A	Ve l
100 vertical	PT2*	838011493X		171	PT2*	838011494X		176	0,45	1,3	18
	PT3*	838011495X		172	PT3*	838011496X		176	0,45	1,3	18
200 vertical	PT2*	838011497X		193	PT2*	838011498X		198	0,45	1,3	18
	PT3*	838011499X		194	PT3*	838011500X		198	0,45	1,3	18
300 vertical	P1	838010891X		231	P1	838010896X		251	1,1	3,3	25
	P2	838010892X		233	P2	838010897X		254	1,5	3,8	25
	P3	838010893X		233	P3	838010898X		255	1,5	3,8	25
	P4	838010894X		237	P4	838010899X		262	2,2	4,7	25
	P5	838010895X		239	P5	838010900X		266	3	6,4	25
300 horizontal	P1	838010349		260	P1	838010354		305	1,1	3,3	25
	P2	838010350		262	P2	838010355		308	1,5	3,8	25
	P3	838010351		262	P3	838010356		309	1,5	3,4	25
	P4	838010352		266	P4	838010357		316	2,2	4,7	25
	P5	838010353		297	P5	838010358		320	3	6,4	25
500 horizontal	P1	838010359		283	P1	838010364		318	1,1	3,3	25
	P2	838010360		285	P2	838010365		321	1,5	3,8	25
	P3	838010361		285	P3	838010366		322	1,5	3,8	25
	P4	838010362		289	P4	838010367		330	2,2	4,7	25
	P5	838010363		320	P5	838010368		334	3	6,4	25
	P6	838010879X		313	P6	838011056X		369	3	6,1	25
750 horizontal	P6	838010374		425	P6	838010379		476	3	6,1	25
	P7	838011384X		428	P7	838011385X		481	4	8,7	25
	P8	838010375		442	P8	838010380		542	5,5	10,4	25
	P9	838011392X		446	P9	838011393X		550	7,5	13,6	25
	P10	838010376		460	P10	838010381		559	5,5	10,4	25
	P11	838010377		464	P11	838010382		568	7,5	13,6	25
	P12	838011400X		477	P12	838011401X		605	9,2	17,2	25
	P13	838010378		477	P13	838010383		605	11	21,3	25
1000 horizontal	P6	838010384		445	P6	838010389		531	3	6,1	25
	P7	838011386X		447	P7	838011387X		536	4	8,7	25
	P8	838010385		461	P8	838010390		598	5,5	10,4	25
	P9	838011394X		465	P9	838011395X		606	7,5	13,6	25
	P10	838010386		479	P10	838010391		615	5,5	10,4	25
	P11	838010387		484	P11	838010392		624	7,5	13,6	25
	P12	838011402X		496	P12	838011403X		661	9,2	17,2	25
	P13	838010388		496	P13	838010393		661	11	21,3	25

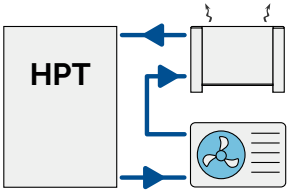
Pve (bar) 1,5 Ps (bar) 3 T min (°C) 0
Nominal conditions for the sizing of the expansion vessels: 4-40°C 100% water head 10 mwc and pre-charge 1.5 bar. In design conditions different from the nominal ones it is necessary to check the volume of the expansion vessels.
*** PT2 and PT3 available in single-phase version on request**

NOTE - Layout 1 is the standard execution unless otherwise stated in the order. Layout 2 and Layout 3 on request.

Legend

F.L.I. Maximum absorbed power
F.L.A. Maximum current absorbed
Ve Expansion vessel capacity
Pve Expansion vessel pre-charge
Ps Maximum operating pressure
T min Minimum liquid temperature

HPT Layout 1 without Inverter



CHECK UPDATED PRICE LIST

go.fiorinigroup.it/pr

HPT	1 pump				2 pumps (1 redundant)						
Capacity	Model	Code	Price	Weight kg	Model	Code	Price	Weight kg	F.L.I kW	F.L.A. (400/3/50) A	Ve l
1500 horizontal	P6	838010705		653	P6	838010458		716	3	6,1	2x25
	P7	838011388X		656	P7	838011389X		721	4	8,7	2x25
	P8	838010704		670	P8	838010630		783	5,5	10,4	2x25
	P9	838011396X		674	P9	838011397X		791	7,5	13,6	2x25
	P10	838010703		688	P10	838010696		803	5,5	10,4	2x25
	P11	838010702		692	P11	838010695		812	7,5	13,6	2x25
	P12	838011404X		705	P12	838011405X		846	9,2	17,2	2x25
	P13	838010701		705	P13	838010694		849	11	21,3	2x25
	P14	838010700		749	P14	838010693		939	15	27,7	2x25
	P15	838011380X		739	P15	838011381X		921	11	20,2	2x25
	P16	838010699		776	P16	838010692		995	15	27,5	2x25
	P17	838010698		786	P17	838010691		1015	18,5	33	2x25
	P18	838010697		795	P18	838010690		1033	22	40,9	2x25
2500 horizontal	P6	838010689		706	P6	838010682		763	3	6,1	3x25
	P7	838011390X		708	P7	838011391X		768	4	8,7	3x25
	P8	838010688		722	P8	838010681		830	5,5	10,4	3x25
	P9	838011398X		726	P9	838011399X		838	7,5	13,6	3x25
	P10	838010687		740	P10	838010680		843	5,5	10,4	3x25
	P11	838010686		745	P11	838010679		852	7,5	13,6	3x25
	P12	838011406X		757	P12	838011407X		889	9,2	17,2	3x25
	P13	838010685		757	P13	838010678		889	11	21,3	3x25
	P14	838010684		801	P14	838010677		980	15	27,7	3x25
	P15	838011382X		791	P15	838011383X		967	11	20,2	3x25
	P16	838010707		828	P16	838010459		1041	15	27,5	3x25
	P17	838010683		838	P17	838010676		1061	18,5	33	3x25
	P18	838010706		847	P18	838010633		1079	22	40,9	3x25

Pve (bar) 1,5 Ps (bar) 3 T min (°C) 0

Nominal conditions for the sizing of the expansion vessels: 4-40°C 100% water head 10 mwc and pre-charge 1.5 bar. In design conditions different from the nominal ones it is necessary to check the volume of the expansion vessels.

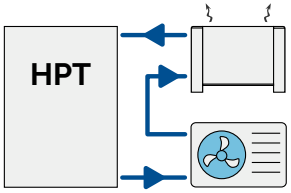
*** PT2 and PT3 available in single-phase version on request**

NOTE - Layout 1 is the standard execution unless otherwise stated in the order. Layout 2 and Layout 3 on request.

Legend

F.L.I. Maximum absorbed power
F.L.A. Maximum current absorbed
Ve Expansion vessel capacity
Pve Expansion vessel pre-charge
Ps Maximum operating pressure
T min Minimum liquid temperature

HPT Layout 1 with Inverter



CHECK UPDATED PRICE LIST

go.fiorinigroup.it/pr

HPT	1 pump				2 pumps (1 redundant)						
Capacity	Model	Code	Price	Weight kg	Model	Code	Price	Weight kg	F.L.I kW	F.L.A. (400/3/50) A	Ve l
100 vertical	PT2*	838011747X		171	PT2*	838011740X		176	0,45	1,3	18
	PT3*	838011748X		172	PT3*	838011741X		176	0,45	1,3	18
200 vertical	PT2*	838011749X		193	PT2*	838011742X		198	0,45	1,3	18
	PT3*	838011750X		194	PT3*	838011636X		198	0,45	1,3	18
300 vertical	P1	838011751X		231	P1	838011743X		251	1,1	2,5	25
	P2	838011752X		233	P2	838011744X		254	1,5	3,2	25
	P3	838011753X		233	P3	838011745X		255	1,5	3,4	25
	P4	838011754X		237	P4	838011746X		262	2,2	4,8	25
	P5	838011755X		239	P5	838011578X		266	3	5,6	25
300 horizontal	P1	838011666X		260	P1	83801A677X		305	1,1	2,5	25
	P2	838011667X		262	P2	838011709X		308	1,5	3,2	25
	P3	838011668X		262	P3	838011710X		309	1,5	3,4	25
	P4	838011669X		266	P4	838011711X		316	2,2	4,8	25
	P5	838011670X		297	P5	83801A573X		320	3	5,6	25
500 horizontal	P1	838011671X		283	P1	838011712X		318	1,1	2,5	25
	P2	838011672X		285	P2	838011713X		321	1,5	3,2	25
	P3	838011491X		285	P3	838011366X		322	1,5	3,4	25
	P4	838011673X		289	P4	838011714X		330	2,2	4,8	25
	P5	838011674X		320	P5	838011715X		334	3	5,6	25
	P6	838011996X		357	P6	838011469X		408	3	6,4	25
750 horizontal	P6	838011675X		425	P6	83801A603X		476	3	6,4	25
	P7	838011676X		428	P7	838011716X		481	4	8,7	25
	P8	838011677X		442	P8	838011717X		542	5,5	10,6	25
	P9	838011678X		446	P9	838011718X		550	7,5	13,6	25
	P10	838011679X		460	P10	838011719X		559	5,5	10,6	25
	P11	838011680X		464	P11	838011720X		568	7,5	13,6	25
	P12	838011681X		477	P12	838011721X		605	9,2	17,2	25
	P13	838011682X		477	P13	838011612X		605	11	21,3	25
1000 horizontal	P6	838011683X		445	P6	838011577X		531	3	6,4	25
	P7	838011573X		447	P7	838011722X		536	4	8,7	25
	P8	838011684X		461	P8	838011336X		598	5,5	10,6	25
	P9	838011685X		465	P9	838011656X		606	7,5	13,6	25
	P10	838011686X		479	P10	838011723X		615	5,5	10,6	25
	P11	838011687X		484	P11	838011724X		624	7,5	13,6	25
	P12	838011688X		496	P12	83801A809X		661	9,2	17,2	25
	P13	838011689X		496	P13	838011988X		661	11	21,3	25

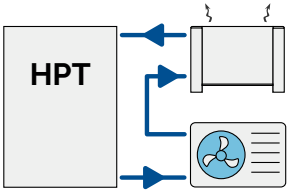
Pve (bar) 1,5 Ps (bar) 3 T min (°C) 0
Nominal conditions for the sizing of the expansion vessels: 4-40°C 100% water head 10 mwc and pre-charge 1.5 bar. In design conditions different from the nominal ones it is necessary to check the volume of the expansion vessels.
*** PT2 and PT3 available in single-phase version on request**

NOTE - Layout 1 is the standard execution unless otherwise stated in the order. Layout 2 and Layout 3 on request.

Legend

F.L.I. Maximum absorbed power
F.L.A. Maximum current absorbed
Ve Expansion vessel capacity
Pve Expansion vessel pre-charge
Ps Maximum operating pressure
T min Minimum liquid temperature

HPT Layout 1 with Inverter



CHECK UPDATED PRICE LIST

go.fiorinigroup.it/pr

HPT	1 pump				2 pumps (1 redundant)						
Capacity	Model	Code	Price	Weight kg	Model	Code	Price	Weight kg	F.L.I kW	F.L.A. (400/3/50) A	Ve l
1500 horizontal	P6	838011690X		653	P6	838011725X		716	3	6,4	2x25
	P7	838011691X		656	P7	838011628X		721	4	8,7	2x25
	P8	838011413X		670	P8	838011367X		783	5,5	10,6	2x25
	P9	838011457X		674	P9	838011726X		791	7,5	13,6	2x25
	P10	838011417X		688	P10	838011727X		803	5,5	10,6	2x25
	P11	838011586X		692	P11	838011562X		812	7,5	13,6	2x25
	P12	838011692X		705	P12	83801A802X		846	9,2	17,2	2x25
	P13	838011453X		705	P13	838011616X		849	11	21,3	2x25
	P14	838011693X		749	P14	838011728X		939	15	27,7	2x25
	P15	838011694X		739	P15	838011729X		921	11	20,2	2x25
	P16	838011695X		776	P16	838011730X		995	15	26,6	2x25
	P17	838011696X		786	P17	838011731X		1015	18,5	33	2x25
	P18	838011697X		795	P18	83801A801X		1033	22	40,4	2x25
2500 horizontal	P6	838011698X		706	P6	838011526X		763	3	6,4	3x25
	P7	838011699X		708	P7	838011732X		768	4	8,7	3x25
	P8	838011583X		722	P8	838011733X		830	5,5	10,6	3x25
	P9	838011700X		726	P9	838011734X		838	7,5	13,6	3x25
	P10	838011701X		740	P10	838011735X		843	5,5	10,6	3x25
	P11	83801A308X		745	P11	83801A550X		852	7,5	13,6	3x25
	P12	838011702X		757	P12	838011736X		889	9,2	17,2	3x25
	P13	838011703X		757	P13	838011737X		889	11	21,3	3x25
	P14	838011704X		801	P14	838011632X		980	15	27,7	3x25
	P15	838011705X		791	P15	838011738X		967	11	20,2	3x25
	P16	838011706X		828	P16	83801A657X		1041	15	26,6	3x25
	P17	838011707X		838	P17	83801B008X		1061	18,5	33	3x25
	P18	838011708X		847	P18	838011739X		1079	22	40,4	3x25

Pve (bar) 1,5 Ps (bar) 3 T min (°C) 0

Nominal conditions for the sizing of the expansion vessels: 4-40°C 100% water head 10 mwc and pre-charge 1.5 bar. In design conditions different from the nominal ones it is necessary to check the volume of the expansion vessels.

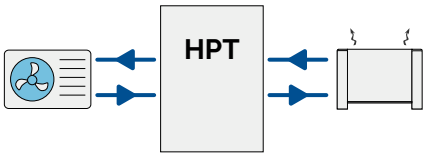
*** PT2 and PT3 available in single-phase version on request**

NOTE - Layout 1 is the standard execution unless otherwise stated in the order. Layout 2 and Layout 3 on request.

Legend

F.L.I. Maximum absorbed power
F.L.A. Maximum current absorbed
Ve Expansion vessel capacity
Pve Expansion vessel pre-charge
Ps Maximum operating pressure
T min Minimum liquid temperature

HPT Layout 2 without Inverter



CHECK UPDATED PRICE LIST

go.fiorinigroup.it/pr

HPT	1 pump				2 pumps (1 redundant)				F.L.I kW	F.L.A. (400/3/50) A	Ve l
Capacity	Model	Code	Price	Weight kg	Model	Code	Price	Weight kg			
100 vertical	PT2*	838011800X		171	PT2*	838011846X		176	0,45	1,3	18
	PT3*	838011801X		172	PT3*	83801A908X		176	0,45	1,3	18
200 vertical	PT2*	838011802X		193	PT2*	838011847X		198	0,45	1,3	18
	PT3*	838011803X		194	PT3*	838011848X		198	0,45	1,3	18
300 vertical	P1	838011646X		231	P1	838011849X		251	1,1	2,5	25
	P2	838011538X		233	P2	838011850X		254	1,5	3,2	25
	P3	838011537X		233	P3	838011851X		255	1,5	3,4	25
	P4	838011804X		237	P4	838011852X		262	2,2	4,8	25
	P5	838011805X		239	P5	838011853X		266	3	5,6	25
300 horizontal	P1	83801A580X		260	P1	838011806X		305	1,1	2,5	25
	P2	83801A211X		262	P2	838011807X		308	1,5	3,2	25
	P3	83801A810X		262	P3	83801A561X		309	1,5	3,4	25
	P4	838011756X		266	P4	838011808X		316	2,2	4,8	25
	P5	838011757X		297	P5	83801A699X		320	3	5,6	25
500 horizontal	P1	83801A777X		283	P1	83801A271X		318	1,1	2,5	25
	P2	83801A445X		285	P2	83801A244X		321	1,5	3,2	25
	P3	838011758X		285	P3	83801A671X		322	1,5	3,4	25
	P4	83801A512X		289	P4	838011809X		330	2,2	4,8	25
	P5	838011759X		320	P5	838011810X		334	3	5,6	25
	P6	838011994X		357	P6	838011995X		408	3	6,4	25
750 horizontal	P6	838011760X		425	P6	838011811X		476	3	6,4	25
	P7	838011761X		428	P7	838011812X		481	4	8,7	25
	P8	838011762X		442	P8	838011813X		542	5,5	10,6	25
	P9	838011763X		446	P9	838011814X		550	7,5	13,6	25
	P10	838011764X		460	P10	838011815X		559	5,5	10,6	25
	P11	838011765X		464	P11	838011816X		568	7,5	13,6	25
	P12	838011766X		477	P12	838011817X		605	9,2	17,2	25
	P13	838011767X		477	P13	838011818X		605	11	21,3	25
1000 horizontal	P6	838011768X		445	P6	838011819X		531	3	6,4	25
	P7	838011769X		447	P7	83801A304X		536	4	8,7	25
	P8	838011770X		461	P8	838011820X		598	5,5	10,6	25
	P9	838011771X		465	P9	838011821X		606	7,5	13,6	25
	P10	838011772X		479	P10	838011822X		615	5,5	10,6	25
	P11	838011773X		484	P11	838011550X		624	7,5	13,6	25
	P12	838011774X		496	P12	838011823X		661	9,2	17,2	25
	P13	838011775X		496	P13	83801A192		661	11	21,3	25

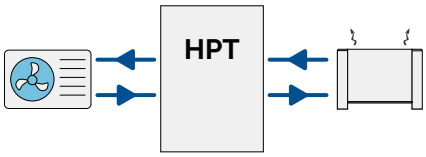
Pve (bar) 1,5 Ps (bar) 3 T min (°C) 0
Nominal conditions for the sizing of the expansion vessels: 4-40°C 100% water head 10 mwc and pre-charge 1.5 bar. In design conditions different from the nominal ones it is necessary to check the volume of the expansion vessels.
*** PT2 and PT3 available in single-phase version on request**

NOTE - Layout 1 is the standard execution unless otherwise stated in the order. Layout 2 and Layout 3 on request.

Legend

F.L.I. Maximum absorbed power
F.L.A. Maximum current absorbed
Ve Expansion vessel capacity
Pve Expansion vessel pre-charge
Ps Maximum operating pressure
T min Minimum liquid temperature

HPT Layout 2 without Inverter



CHECK UPDATED PRICE LIST

go.fiorinigroup.it/pr

HPT	1 pump				2 pumps (1 redundant)				F.L.I kW	F.L.A. (400/3/50) A	Ve l
Capacity	Model	Code	Price	Weight kg	Model	Code	Price	Weight kg			
1500 horizontal	P6	838011248X		653	P6	83801A305X		716	3	6,4	2x25
	P7	838011776X		656	P7	838011824X		721	4	8,7	2x25
	P8	838011415X		670	P8	838011825X		783	5,5	10,6	2x25
	P9	838011777X		674	P9	838011595X		791	7,5	13,6	2x25
	P10	838011778X		688	P10	838011826X		803	5,5	10,6	2x25
	P11	838011779X		692	P11	838011827X		812	7,5	13,6	2x25
	P12	838011780X		705	P12	838011828X		846	9,2	17,2	2x25
	P13	838011781X		705	P13	838011829X		849	11	21,3	2x25
	P14	838011782X		749	P14	838011830X		939	15	27,7	2x25
	P15	838011783X		739	P15	838011831X		921	11	20,2	2x25
	P16	838011784X		776	P16	838011832X		995	15	26,6	2x25
	P17	838011785X		786	P17	838011833X		1015	18,5	33	2x25
	P18	838011786X		795	P18	838011834X		1033	22	40,4	2x25
2500 horizontal	P6	838011787X		706	P6	838011835X		763	3	6,4	3x25
	P7	838011788X		708	P7	838011836X		768	4	8,7	3x25
	P8	838011789X		722	P8	838011837X		830	5,5	10,6	3x25
	P9	838011790X		726	P9	838011838X		838	7,5	13,6	3x25
	P10	838011791X		740	P10	838011839X		843	5,5	10,6	3x25
	P11	838011792X		745	P11	83801A303X		852	7,5	13,6	3x25
	P12	838011793X		757	P12	838011840X		889	9,2	17,2	3x25
	P13	838011794X		757	P13	838011841X		889	11	21,3	3x25
	P14	838011795X		801	P14	838011842X		980	15	27,7	3x25
	P15	838011796X		791	P15	838011553X		967	11	20,2	3x25
	P16	838011797X		828	P16	838011843X		1041	15	26,6	3x25
	P17	838011798X		838	P17	838011844X		1061	18,5	33	3x25
	P18	838011799X		847	P18	838011845X		1079	22	40,4	3x25

Pve (bar) 1,5 Ps (bar) 3 T min (°C) 0

Nominal conditions for the sizing of the expansion vessels: 4-40°C 100% water head 10 mwc and pre-charge 1.5 bar. In design conditions different from the nominal ones it is necessary to check the volume of the expansion vessels.

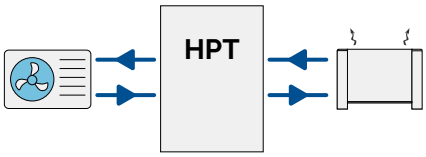
*** PT2 and PT3 available in single-phase version on request**

NOTE - Layout 1 is the standard execution unless otherwise stated in the order. Layout 2 and Layout 3 on request.

Legend

F.L.I. Maximum absorbed power
F.L.A. Maximum current absorbed
Ve Expansion vessel capacity
Pve Expansion vessel pre-charge
Ps Maximum operating pressure
T min Minimum liquid temperature

HPT Layout 2 with Inverter



CHECK UPDATED PRICE LIST

go.fiorinigroup.it/pr

HPT	1 pump				2 pumps (1 redundant)						
Capacity	Model	Code	Price	Weight kg	Model	Code	Price	Weight kg	F.L.I kW	F.L.A. (400/3/50) A	Ve l
100 vertical	PT2*	838011903X		171	PT2*	838011949X		176	0,45	1,3	18
	PT3*	838011904X		172	PT3*	838011950X		176	0,45	1,3	18
200 vertical	PT2*	838011905X		193	PT2*	838011951X		198	0,45	1,3	18
	PT3*	838011906X		194	PT3*	838011952X		198	0,45	1,3	18
300 vertical	P1	838011907X		231	P1	838011953X		251	1,1	2,5	25
	P2	838011908X		233	P2	838011954X		254	1,5	3,2	25
	P3	838011909X		233	P3	838011955X		255	1,5	3,4	25
	P4	838011910X		237	P4	838011956X		262	2,2	4,8	25
	P5	838011911X		239	P5	838011957X		266	3	5,6	25
300 horizontal	P1	838011854X		260	P1	838011912X		305	1,1	2,5	25
	P2	838011855X		262	P2	838011913X		308	1,5	3,2	25
	P3	838011856X		262	P3	838011914X		309	1,5	3,4	25
	P4	838011857X		266	P4	838011915X		316	2,2	4,8	25
	P5	838011858X		297	P5	838011916X		320	3	5,6	25
500 horizontal	P1	838011664X		283	P1	838011917X		318	1,1	2,5	25
	P2	838011859X		285	P2	838011643X		321	1,5	3,2	25
	P3	83801A307X		285	P3	838011918X		322	1,5	3,4	25
	P4	838011860X		289	P4	838011919X		330	2,2	4,8	25
	P5	838011861X		320	P5	838011920X		334	3	5,6	25
	P6	838011992X		357	P6	838011993X		408	3	6,4	25
750 horizontal	P6	838011862X		425	P6	83801A612X		476	3	6,4	25
	P7	838011863X		428	P7	838011605X		481	4	8,7	25
	P8	838011864X		442	P8	838011921X		542	5,5	10,6	25
	P9	838011865X		446	P9	838011922X		550	7,5	13,6	25
	P10	838011866X		460	P10	838011923X		559	5,5	10,6	25
	P11	838011867X		464	P11	838011924X		568	7,5	13,6	25
	P12	838011868X		477	P12	838011925X		605	9,2	17,2	25
	P13	838011869X		477	P13	838011926X		605	11	21,3	25
1000 horizontal	P6	838011870X		445	P6	83801A715X		531	3	6,4	25
	P7	838011871X		447	P7	838011551X		536	4	8,7	25
	P8	838011872X		461	P8	838011927X		598	5,5	10,6	25
	P9	838011525X		465	P9	838011928X		606	7,5	13,6	25
	P10	838011873X		479	P10	838011929X		615	5,5	10,6	25
	P11	838011874X		484	P11	838011930X		624	7,5	13,6	25
	P12	838011875X		496	P12	83801A788X		661	9,2	17,2	25
	P13	838011876X		496	P13	838011558X		661	11	21,3	25

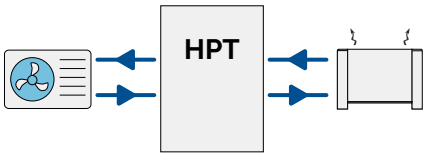
Pve (bar) 1,5 Ps (bar) 3 T min (°C) 0
Nominal conditions for the sizing of the expansion vessels: 4-40°C 100% water head 10 mwc and pre-charge 1.5 bar. In design conditions different from the nominal ones it is necessary to check the volume of the expansion vessels.
*** PT2 and PT3 available in single-phase version on request**

NOTE - Layout 1 is the standard execution unless otherwise stated in the order. Layout 2 and Layout 3 on request.

Legend

F.L.I. Maximum absorbed power
F.L.A. Maximum current absorbed
Ve Expansion vessel capacity
Pve Expansion vessel pre-charge
Ps Maximum operating pressure
T min Minimum liquid temperature

HPT Layout 2 with Inverter



CHECK UPDATED PRICE LIST

go.fiorinigroup.it/pr

HPT	1 pump				2 pumps (1 redundant)				F.L.I kW	F.L.A. (400/3/50) A	Ve l
Capacity	Model	Code	Price	Weight kg	Model	Code	Price	Weight kg			
1500 horizontal	P6	838011877X		653	P6	838011931X		716	3	6,4	2x25
	P7	838011878X		656	P7	838011590X		721	4	8,7	2x25
	P8	838011879X		670	P8	838011661X		783	5,5	10,6	2x25
	P9	838011880X		674	P9	838011932X		791	7,5	13,6	2x25
	P10	838011881X		688	P10	838011933X		803	5,5	10,6	2x25
	P11	838011882X		692	P11	838011934X		812	7,5	13,6	2x25
	P12	838011883X		705	P12	838011935X		846	9,2	17,2	2x25
	P13	838011884X		705	P13	838011936X		849	11	21,3	2x25
	P14	838011885X		749	P14	838011937X		939	15	27,7	2x25
	P15	838011886X		739	P15	838011938X		921	11	20,2	2x25
	P16	838011887X		776	P16	838011939X		995	15	26,6	2x25
	P17	838011888X		786	P17	838011940X		1015	18,5	33	2x25
	P18	838011889X		795	P18	838011941X		1033	22	40,4	2x25
2500 horizontal	P6	838011890X		706	P6	838011527X		763	3	6,4	3x25
	P7	838011891X		708	P7	838011531X		768	4	8,7	3x25
	P8	838011892X		722	P8	838011530X		830	5,5	10,6	3x25
	P9	838011893X		726	P9	838011942X		838	7,5	13,6	3x25
	P10	838011894X		740	P10	838011943X		843	5,5	10,6	3x25
	P11	838011895X		745	P11	838011532X		852	7,5	13,6	3x25
	P12	838011896X		757	P12	838011512X		889	9,2	17,2	3x25
	P13	838011897X		757	P13	838011944X		889	11	21,3	3x25
	P14	838011898X		801	P14	838011945X		980	15	27,7	3x25
	P15	838011899X		791	P15	838011946X		967	11	20,2	3x25
	P16	838011900X		828	P16	838011533X		1041	15	26,6	3x25
	P17	838011901X		838	P17	838011947X		1061	18,5	33	3x25
	P18	838011902X		847	P18	838011948X		1079	22	40,4	3x25

Pve (bar) 1,5 Ps (bar) 3 T min (°C) 0
Nominal conditions for the sizing of the expansion vessels: 4-40°C 100% water head 10 mwc and pre-charge 1.5 bar. In design conditions different from the nominal ones it is necessary to check the volume of the expansion vessels.
*** PT2 and PT3 available in single-phase version on request**

NOTE - Layout 1 is the standard execution unless otherwise stated in the order. Layout 2 and Layout 3 on request.

Legend

F.L.I. Maximum absorbed power
F.L.A. Maximum current absorbed
Ve Expansion vessel capacity
Pve Expansion vessel pre-charge
Ps Maximum operating pressure
T min Minimum liquid temperature

Hydronic systems
HPT accessories

CHECK UPDATED PRICE LIST

go.fiorinigroup.it/pr

1 **Programmable timer for alternating pumps**
In the dual pump configuration, the timer can be used to handle alternating pump operation at specified time intervals. Without the timer, the alternating pump operation occurs at each startup of the group. Default alternation every 48 hours programmable.

* **WARNING:** If the system operates 24 hours a day, 7 days a week, the pump alternation is not guaranteed by the standard group. In this case, we recommend the use of this accessory.

Code	Description	Price
838081104X	TIMER OPTION 48H	

2 **Differential pressure switch**
Security device that allows you to verify that there is flow inside the system. The device generates an alarm signal but does not automatically stop the machine.

Code	Description	Price
838081000X	DIFFERENTIAL PRESSURE SWITCH	

3 **Anti-vibrating feet**
Set of anti-vibrating feet to be placed on the machine's support points. The feet are supplied disassembled.

Code	Description	Price
838080917X	ANTIVIBRATION FOR HPT 300/500	
838080936X	ANTIVIBRATION FOR HPT 750/1000	
838080938X	ANTIVIBRATION FOR HPT 1500/2500L	

4 **Antifreeze electric resistance kit (special version)**
This specification is aimed at ensuring the operation of the machine under severe temperature conditions (from +4°C to -20°C), preventing the formation of ice, especially during start-up and shutdown phases. **see page: 150**

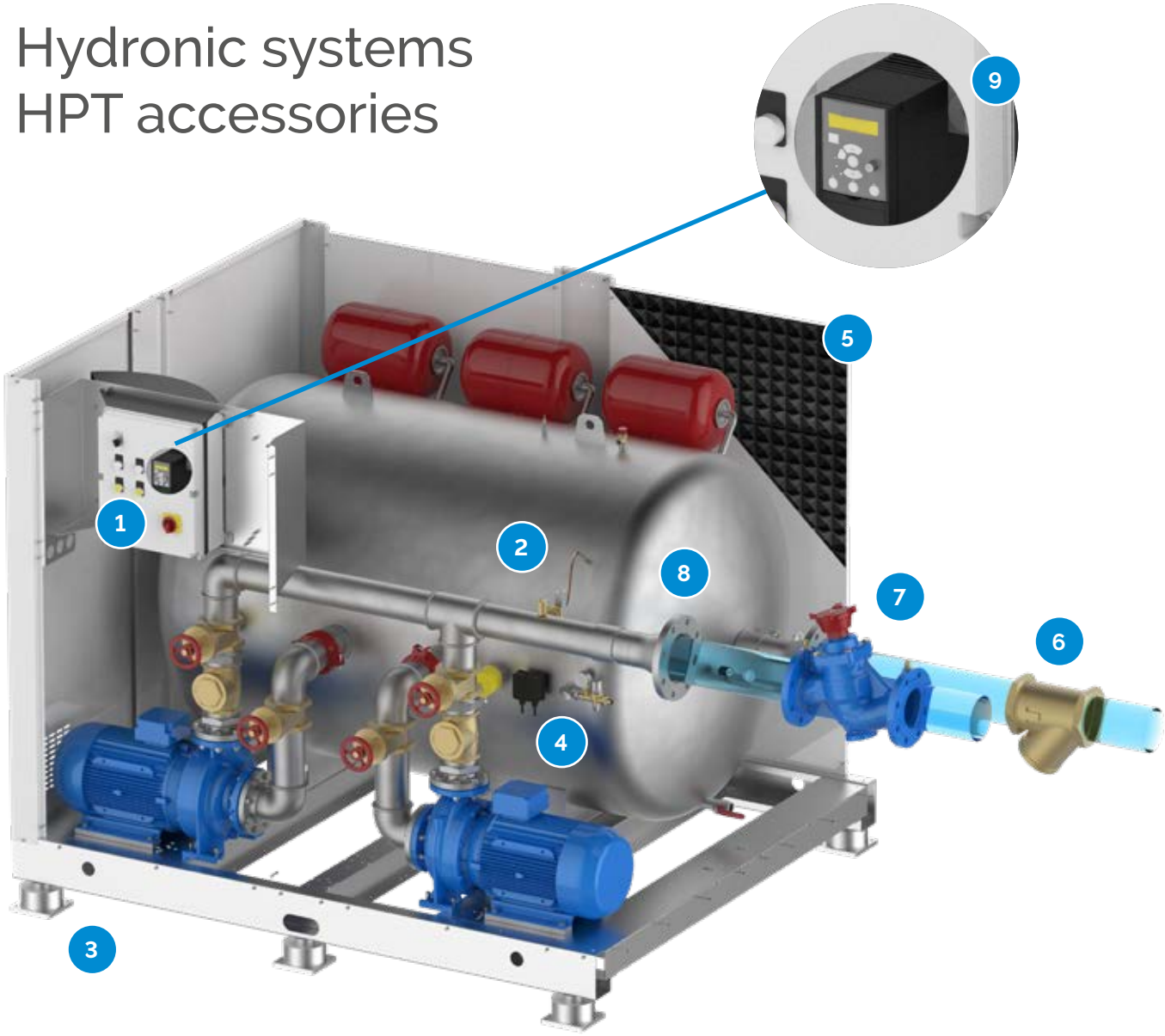
5 **Soundproof coating (special version)**
Soundproofing cladding for the framework is available, which significantly reduces the noise emission level of the machine.
see page: 150

6 **Filter (special version)**
Mesh filter, with 1000 micron holes, can be placed outside the unit to protect the pumps from any impurities in the equipment.
see page: 150

7 **Balancing valves (special version)**
Valve can be connected externally to balance the flow within the circuit.
see page: 150

8 **Tailored connections**
From Threaded to Flanged/Grooved Standard **see page: 148**
Special version for larger size, flanged grooved in various materials **see page: 150**

Hydronic systems
HPT accessories



9 **Standard switchboard with BMS**
Integration of BMS module to control remotely pumps and availability to check pump status remotely (pump on and/or alarms). In the case of application with an inverter, it is also possible to vary the pressure set point. Communication protocol Modbus through serial port RS-485.

Stainless steel execution
In projects where the fluid temperature is between -11°C and -20°C, the hydronic kits are produced in a special configuration by replacing the standard hydraulic components with components suitable for working at low temperatures by exploiting the characteristics of the stainless steel material.
see page: 150

Wooden box packing (special version)
Extra protective packing suitable for risky and long-distance transport.
see page: 150

Increased insulation
This increased insulation compared to the standard allows the use of the kit in particularly harsh temperature conditions (from +4°C to -20°C), avoiding the formation of ice or condensation.
see page: 150

Low temperature pump
In projects where the fluid temperature is between -11°C and -20°C, the standard pump is replaced with a special pump suitable for working in the aforementioned conditions.
see page: 150



Download additional content

go.fiorinigroup.it/eng/content

fiorini

Fiorini Industries S.r.l.
Ph. +39 0543 723197 – Fax +39 0543 720413
Via Zampeschi 119 – 47122 Forlì (FC) – Italy
www.fiorini-industries.com