

Brazed plate heat exchangers



Finiro

Brazed heat exchangers P and WP series

The brazed plate heat exchangers (P and WP series) are used in heating, cooling and heat recuperation systems. The quality of the parts and the brazing process, which is carried out with care, make a trustworthy product. The plate design makes it possible to reach higher heat exchange performances and lower pressure loss. Moreover, the product has an elevated resistance to high temperatures and pressure.

Our brazed plate heat exchangers can be used with many kinds of fluids in various combinations (ex: water/water, water/oil, water/steam, steam/oil, Freon/water, etc.)

Advantages

- compact design
- reasonable weight
- high heat exchange efficiency
- high temperature range (-160/+ 195 °C)
- high max operating pressure (30 bar)

Main applications

- heating/cooling of technical water or industrial fluids
- evaporation and condensation of refrigerant gas
- hydraulic separation of the circuit
- heat recuperation in domestic applications and industrial processes
- functioning with a wide range of compatible fluids
- mechanical and chemical resistance of the materials

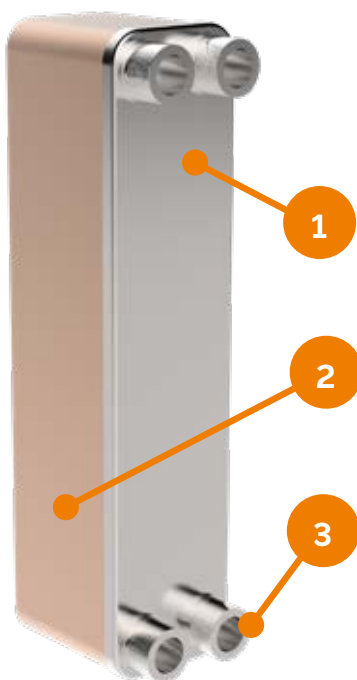


Brazed heat exchanger Range



| Model | WP4 | P4 | P7 | P15 | P30 |
|---------------------------------|-----------|----------|-----------|------------|------------|
| Plate surface (m ²) | 0,03 | 0,02375 | 0,07 | 0,15 | 0,30 |
| Nominal pressure | PN16 | PN30 | PN30 | PN30 | PN30 |
| Standard coupling | 1" | 1" | 1 1/4" | 2" | 2 1/2" |
| PP (mm) | 13+2,3xN* | 9+2,4xN* | 9+2,57xN* | 10+2,48xN* | 11+2,90xN* |
| Ht (mm) | 335 | 310 | 526 | 530 | 782 |
| Lt (mm) | 124 | 111 | 120 | 256 | 350 |
| Z1 (mm) | 281 | 250 | 473 | 439 | 655 |
| Z2 (mm) | 73 | 50 | 66 | 177 | 220 |
| PC (mm) | 20 | 24 | 27 | 27 | 27 |

*Plate No.

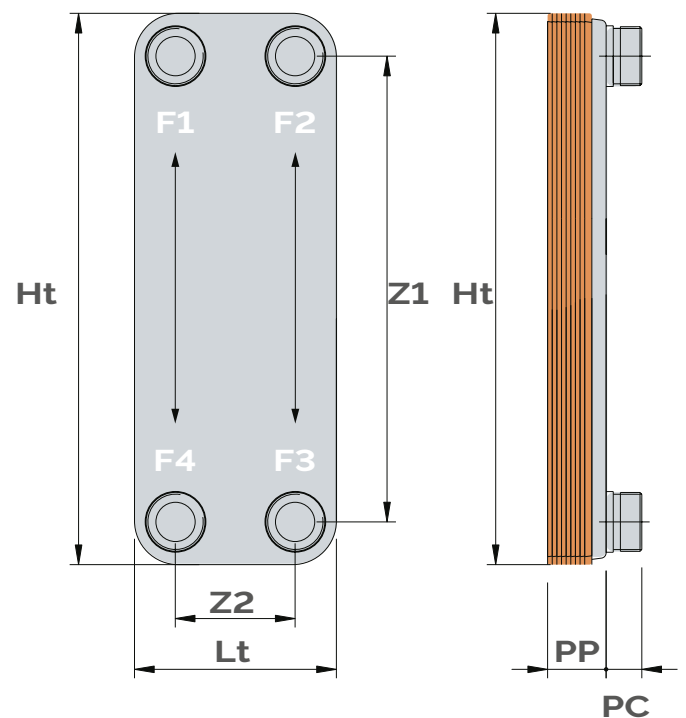


Legend

1. Front plate
2. Brazing
3. Coupling

Couplings

- Primary: Inlet F1
- Primary: Outlet F4
- Secondary: Inlet F3
- Secondary: Outlet F2



Accessories

Insulation, Couplings

WP4, P4, P7 Serie: PE insulation thermoformed removable with velcro strips.

| Model | Plates threshold | Code | Price |
|-------|------------------|------------|-------|
| WP4 | up to 14 plates | 843090066X | |
| | up to 20 plates | 843090067X | |
| | up to 30 plates | 843090068X | |
| | up to 40 plates | 843090069X | |
| | up to 50 plates | 843090070X | |
| P4 | up to 14 plates | 843090016X | |
| | up to 20 plates | 843090017X | |
| | up to 30 plates | 843090018X | |
| | up to 40 plates | 843090019X | |
| | up to 50 plates | 843090020X | |
| | up to 60 plates | 843090060X | |
| P7 | up to 30 plates | 843090050X | |
| | up to 50 plates | 843090051X | |
| | up to 70 plates | 843090052X | |



Serie P15 / P30: insulation kit made of sheets of precut adhesive elastomer, finishing tape and assembly instructions.

| Model | Plates threshold | Code | Price |
|-------|---------------------------|------------|-------|
| P15 | from 30 up to 80 plates | 843090053X | |
| | from 81 up to 140 plates | 843090054X | |
| | from 141 up to 200 plates | 843090055X | |
| P30 | from 30 up to 80 plates | 843090056X | |
| | from 81 up to 140 plates | 843090057X | |



A
threaded standard



B
free flange upon request

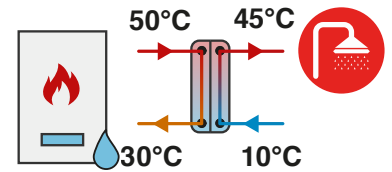
All brazed heat exchangers comes with threaded couplings. Upon request, additional couplings and free flange couplings.

Tables for fast selection - BRAZED

INSTANTANEOUS DHW with LOW temperature source

Project conditions

| Circuit | Source - endpoint | T _{IN} | T _{OUT} | P _{MAX} | Fluid |
|-----------|--------------------|-----------------|------------------|--|------------------|
| HOT side | Water heater | 50°C | 30°C | 16 bar (WP4) 30 bar (P4-P7-P15-P30) | H ₂ O |
| COLD side | Domestic Hot Water | 10°C | 45°C | 16 bar (WP4) 30 bar (P4-P7-P15-P30) | H ₂ O |



| Power kW | Hot side | | Cold | | Model* | Plates number* | Code | Price | Packaging | |
|-------------|----------|-----|------|-----|--------|-------------------|------------|-------|------------------|--------------|
| | L/h | kPa | L/h | kPa | | | | | Dimensions cm | Weight kg |
| 20 | 868 | 1 | 494 | 0 | WP4 | 20 | 821021102X | | 43x22x24 | 4 |
| 25 | 1085 | 2 | 617 | 1 | WP4 | 20 | 821021102X | | 43x22x24 | 4 |
| 30 | 1302 | 1 | 740 | 0 | WP4 | 30 | 821021103X | | 43x22x24 | 5 |
| 35 | 1519 | 2 | 864 | 1 | WP4 | 30 | 821021103X | | 43x22x24 | 5 |
| 40 | 1736 | 1 | 988 | 0 | WP4 | 40 | 821021104X | | 43x22x24 | 6 |
| 50 | 2170 | 2 | 1235 | 1 | WP4 | 40 | 821021104X | | 43x22x24 | 6 |
| 60 | 2604 | 2 | 1482 | 1 | WP4 | 50 | 821021105X | | 43x22x24 | 8 |
| 75 | 3260 | 23 | 1850 | 7 | P7 | 30 | 821020852X | | 60x80x26 | 11 |
| 85 | 3690 | 29 | 2100 | 9 | P7 | 30 | 821020852X | | 60x80x26 | 11 |
| 100 | 4340 | 15 | 2470 | 5 | P7 | 50 | 821020856X | | 60x80x31 | 15 |
| 120 | 5210 | 21 | 2960 | 7 | P7 | 50 | 821020856X | | 60x80x31 | 15 |
| 150 | 6510 | 31 | 3700 | 11 | P7 | 50 | 821020856X | | 60x80x31 | 15 |
| 180 | 7810 | 24 | 4440 | 8 | P7 | 70 | 821020858X | | 60x80x37 | 19 |
| 210 | 9120 | 32 | 5190 | 11 | P7 | 70 | 821020858X | | 60x80x37 | 19 |
| 240 | 10420 | 27 | 5930 | 10 | P15 | 40 | 821020865X | | 60x80x29 | 28 |
| 270 | 11720 | 33 | 6670 | 12 | P15 | 40 | 821020865X | | 60x80x29 | 28 |
| 300 | 13020 | 27 | 7410 | 10 | P15 | 50 | 821020866X | | 60x80x31 | 32 |

*Accessories see
pag. 49 (See Model
and plates number)

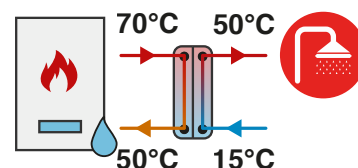
Alternative solution with gasketed heat exchangers: see pag. 38

Tables for fast selection - BRAZED

INSTANTANEOUS DHW with HIGH temperature source

Project conditions

| Circuit | Source - endpoint | T _{IN} | T _{OUT} | P _{MAX} | Fluid |
|-----------|--------------------|-----------------|------------------|--|------------------|
| HOT side | Water heater | 70°C | 50°C | 16 bar (WP4) 30 bar (P4-P7-P15-P30) | H ₂ O |
| COLD side | Domestic Hot Water | 15°C | 50°C | 16 bar (WP4) 30 bar (P4-P7-P15-P30) | H ₂ O |



| Power kW | Hot side | | Cold | | Model* | Plates number* | Code | Price | Packaging | |
|-------------|----------|-----|------|-----|--------|-------------------|------------|-------|------------------|--------------|
| | L/h | kPa | L/h | kPa | | | | | Dimensions cm | Weight kg |
| 20 | 875 | 3 | 495 | 1 | WP4 | 14 | 821021101X | | 43x22x24 | 3 |
| 25 | 1094 | 2 | 618 | 1 | WP4 | 20 | 821021102X | | 43x22x24 | 4 |
| 30 | 1312 | 1 | 742 | 0 | WP4 | 30 | 821021103X | | 43x22x24 | 5 |
| 35 | 1531 | 2 | 866 | 1 | WP4 | 30 | 821021103X | | 43x22x24 | 5 |
| 40 | 1750 | 1 | 990 | 0 | WP4 | 40 | 821021104X | | 43x22x24 | 6 |
| 50 | 2187 | 2 | 1237 | 1 | WP4 | 40 | 821021104X | | 43x22x24 | 6 |
| 60 | 2625 | 2 | 1484 | 1 | WP4 | 50 | 821021105X | | 43x22x24 | 8 |
| 75 | 3280 | 22 | 1860 | 7 | P7 | 30 | 821020852X | | 60x80x26 | 11 |
| 85 | 3720 | 27 | 2100 | 9 | P7 | 30 | 821020852X | | 60x80x26 | 11 |
| 100 | 4370 | 36 | 2470 | 12 | P7 | 30 | 821020852X | | 60x80x26 | 11 |
| 120 | 5250 | 20 | 2970 | 7 | P7 | 50 | 821020856X | | 60x80x31 | 15 |
| 150 | 6560 | 30 | 3710 | 10 | P7 | 50 | 821020856X | | 60x80x31 | 15 |
| 180 | 7870 | 23 | 4450 | 8 | P7 | 70 | 821020858X | | 60x80x37 | 19 |
| 210 | 9190 | 31 | 5190 | 11 | P7 | 70 | 821020858X | | 60x80x37 | 19 |
| 240 | 10500 | 25 | 5940 | 9 | P15 | 40 | 821020865X | | 60x80x29 | 28 |
| 270 | 11810 | 31 | 6680 | 12 | P15 | 40 | 821020865X | | 60x80x29 | 28 |
| 300 | 13120 | 25 | 7420 | 10 | P15 | 50 | 821020866X | | 60x80x31 | 32 |

*Accessories see pag. 49 (See Model and plates number)

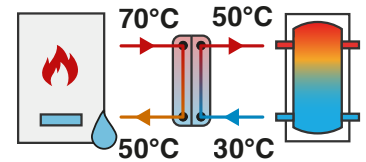
Alternative solution with gasketed heat exchangers: see pag. 39

Tables for fast selection - BRAZED

DHW with STORAGE TANK and HIGH temperature source

Project conditions 1

| Circuit | Source - endpoint | T _{IN} | T _{OUT} | P _{MAX} | Fluid |
|-----------|--------------------|-----------------|------------------|--|------------------|
| HOT side | Water heater | 70°C | 50°C | 16 bar (WP4) 30 bar (P4-P7-P15-P30) | H ₂ O |
| COLD side | Domestic Hot Water | 30°C | 50°C | 16 bar (WP4) 30 bar (P4-P7-P15-P30) | H ₂ O |



| Power kW | Hot side | | Cold | | Model* | Plates number* | Code | Price | Packaging | |
|-------------|----------|-----|-------|-----|--------|-------------------|------------|-------|------------------|--------------|
| | L/h | kPa | L/h | kPa | | | | | Dimensions cm | Weight kg |
| 20 | 875 | 3 | 868 | 2 | WP4 | 14 | 821021101X | | 43x22x24 | 3 |
| 25 | 1094 | 6 | 1085 | 4 | WP4 | 14 | 821021101X | | 43x22x24 | 3 |
| 30 | 1312 | 9 | 1302 | 6 | WP4 | 14 | 821021101X | | 43x22x24 | 3 |
| 35 | 1531 | 5 | 1519 | 4 | WP4 | 20 | 821021102X | | 43x22x24 | 4 |
| 40 | 1750 | 7 | 1736 | 5 | WP4 | 20 | 821021102X | | 43x22x24 | 4 |
| 50 | 2187 | 13 | 2170 | 9 | WP4 | 20 | 821021102X | | 43x22x24 | 4 |
| 60 | 2625 | 20 | 2604 | 15 | WP4 | 20 | 821021102X | | 43x22x24 | 4 |
| 75 | 3281 | 12 | 3256 | 10 | WP4 | 30 | 821021103X | | 43x22x24 | 5 |
| 85 | 3719 | 16 | 3690 | 14 | WP4 | 30 | 821021103X | | 43x22x24 | 5 |
| 100 | 4375 | 12 | 4341 | 10 | WP4 | 40 | 821021104X | | 43x22x24 | 6 |
| 120 | 5250 | 19 | 5209 | 17 | WP4 | 40 | 821021104X | | 43x22x24 | 6 |
| 150 | 6560 | 30 | 6510 | 28 | P7 | 50 | 821020856X | | 60x80x31 | 15 |
| 180 | 7870 | 23 | 7810 | 23 | P7 | 70 | 821020858X | | 60x80x37 | 19 |
| 210 | 9190 | 31 | 9120 | 30 | P7 | 70 | 821020858X | | 60x80x37 | 19 |
| 240 | 10500 | 25 | 10420 | 25 | P15 | 40 | 821020865X | | 60x80x29 | 28 |
| 270 | 11810 | 31 | 11720 | 32 | P15 | 40 | 821020865X | | 60x80x29 | 28 |
| 300 | 13120 | 25 | 13020 | 26 | P15 | 50 | 821020866X | | 60x80x31 | 32 |

*Accessories see pag. 49 (See Model and plates number)

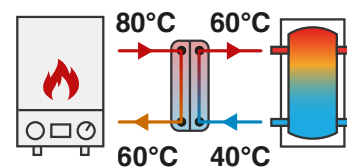
Alternative solution with gasketed heat exchangers: see pag. 40

Tables for fast selection - BRAZED

DHW with STORAGE TANK and HIGH temperature source

Project conditions 2

| Circuit | Source - endpoint | T _{IN} | T _{OUT} | P _{MAX} | Fluid |
|-----------|--------------------|-----------------|------------------|--|------------------|
| HOT side | Water heater | 80°C | 60°C | 16 bar (WP4) 30 bar (P4-P7-P15-P30) | H ₂ O |
| COLD side | Domestic Hot Water | 40°C | 60°C | 16 bar (WP4) 30 bar (P4-P7-P15-P30) | H ₂ O |



| Power kW | Hot side | | Cold | | Model* | Plates number* | Code | Price | Packaging | |
|-------------|----------|-----|-------|-----|--------|-------------------|------------|-------|------------------|--------------|
| | L/h | kPa | L/h | kPa | | | | | Dimensions cm | Weight kg |
| 20 | 879 | 3 | 871 | 2 | WP4 | 14 | 821021101X | | 43x22x24 | 3 |
| 25 | 1098 | 6 | 1089 | 4 | WP4 | 14 | 821021101X | | 43x22x24 | 3 |
| 30 | 1318 | 9 | 1308 | 6 | WP4 | 14 | 821021101X | | 43x22x24 | 3 |
| 35 | 1538 | 14 | 1525 | 9 | WP4 | 14 | 821021101X | | 43x22x24 | 3 |
| 40 | 1758 | 7 | 1743 | 5 | WP4 | 20 | 821021102X | | 43x22x24 | 4 |
| 50 | 2197 | 12 | 2179 | 9 | WP4 | 20 | 821021102X | | 43x22x24 | 4 |
| 60 | 2636 | 20 | 2614 | 15 | WP4 | 20 | 821021102X | | 43x22x24 | 4 |
| 75 | 3295 | 12 | 3268 | 10 | WP4 | 30 | 821021103X | | 43x22x24 | 5 |
| 85 | 3735 | 16 | 3704 | 13 | WP4 | 30 | 821021103X | | 43x22x24 | 5 |
| 100 | 4394 | 25 | 4357 | 20 | WP4 | 30 | 821021103X | | 43x22x24 | 5 |
| 120 | 5272 | 19 | 5228 | 16 | WP4 | 40 | 821021104X | | 43x22x24 | 6 |
| 150 | 6590 | 19 | 6536 | 18 | WP4 | 50 | 821021105X | | 43x22x24 | 8 |
| 180 | 7910 | 23 | 7840 | 22 | P7 | 70 | 821020858X | | 60x80x37 | 19 |
| 210 | 9230 | 30 | 9150 | 29 | P7 | 70 | 821020858X | | 60x80x37 | 19 |
| 240 | 10540 | 25 | 10460 | 25 | P15 | 40 | 821020865X | | 60x80x29 | 28 |
| 270 | 11860 | 31 | 11760 | 31 | P15 | 40 | 821020865X | | 60x80x29 | 28 |
| 300 | 13180 | 25 | 13070 | 25 | P15 | 50 | 821020866X | | 60x80x31 | 32 |

*Accessories see pag. 49 (See Model and plates number)

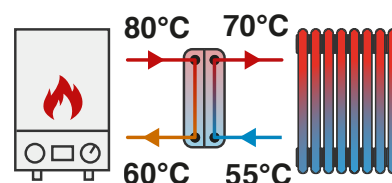
Alternative solution with gasketed heat exchangers: see pag. 41

Tables for fast selection - GASKETED

HEATING with HIGH temperature endpoints

Project conditions 1

| Circuit | Source - endpoint | T _{IN} | T _{OUT} | P _{MAX} | Fluid |
|-----------|-------------------|-----------------|------------------|--|------------------|
| HOT side | Water heater | 80°C | 60°C | 16 bar (WP4) 30 bar (P4-P7-P15-P30) | H ₂ O |
| COLD side | Radiators | 55°C | 70°C | 16 bar (WP4) 30 bar (P4-P7-P15-P30) | H ₂ O |

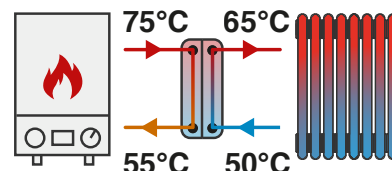


| Power kW | Hot side | | Cold | | Model* | Plates number* | Code | Price | Packaging | |
|-------------|----------|-----|-------|-----|--------|-------------------|------------|-------|------------------|--------------|
| | L/h | kPa | L/h | kPa | | | | | Dimensions cm | Weight kg |
| 15 | 659 | 2 | 876 | 2 | WP4 | 14 | 821021101X | | 43x22x24 | 3 |
| 25 | 1098 | 6 | 1460 | 8 | WP4 | 14 | 821021101X | | 43x22x24 | 3 |
| 35 | 1538 | 5 | 2044 | 8 | WP4 | 20 | 821021102X | | 43x22x24 | 4 |
| 50 | 2197 | 4 | 2920 | 7 | WP4 | 30 | 821021103X | | 43x22x24 | 5 |
| 75 | 3295 | 5 | 4379 | 10 | WP4 | 40 | 821021104X | | 43x22x24 | 6 |
| 100 | 4394 | 7 | 5839 | 13 | WP4 | 50 | 821021105X | | 43x22x24 | 8 |
| 115 | 5050 | 10 | 6710 | 16 | P7 | 70 | 821020858X | | 60x80x37 | 19 |
| 130 | 5710 | 13 | 7590 | 20 | P7 | 70 | 821020858X | | 60x80x37 | 19 |
| 150 | 6590 | 10 | 8760 | 17 | P15 | 40 | 821020865X | | 60x80x29 | 28 |
| 180 | 7910 | 15 | 10510 | 24 | P15 | 40 | 821020865X | | 60x80x29 | 28 |
| 200 | 8790 | 12 | 11680 | 20 | P15 | 50 | 821020866X | | 60x80x31 | 32 |

*Accessories see pag. 49 (See Model and plates number)

Project conditions 2

| Circuit | Source - endpoint | T _{IN} | T _{OUT} | P _{MAX} | Fluid |
|-----------|-------------------|-----------------|------------------|--|------------------|
| HOT side | Water heater | 75°C | 55°C | 16 bar (WP4) 30 bar (P4-P7-P15-P30) | H ₂ O |
| COLD side | Radiators | 50°C | 65°C | 16 bar (WP4) 30 bar (P4-P7-P15-P30) | H ₂ O |



| Power kW | Hot side | | Cold | | Model* | Plates number* | Code | Price | Packaging | |
|-------------|----------|-----|-------|-----|--------|-------------------|------------|-------|------------------|--------------|
| | L/h | kPa | L/h | kPa | | | | | Dimensions cm | Weight kg |
| 15 | 658 | 2 | 874 | 2 | WP4 | 14 | 821021101X | | 43x22x24 | 3 |
| 25 | 1096 | 6 | 1457 | 8 | WP4 | 14 | 821021101X | | 43x22x24 | 3 |
| 35 | 1534 | 5 | 2039 | 8 | WP4 | 20 | 821021102X | | 43x22x24 | 4 |
| 50 | 2192 | 4 | 2913 | 7 | WP4 | 30 | 821021103X | | 43x22x24 | 5 |
| 75 | 3288 | 6 | 4370 | 10 | WP4 | 40 | 821021104X | | 43x22x24 | 6 |
| 100 | 4384 | 7 | 5827 | 13 | WP4 | 50 | 821021105X | | 43x22x24 | 8 |
| 115 | 5040 | 10 | 6700 | 16 | P7 | 70 | 821020858X | | 60x80x37 | 19 |
| 130 | 5700 | 13 | 7570 | 20 | P7 | 70 | 821020858X | | 60x80x37 | 19 |
| 150 | 6580 | 11 | 8740 | 17 | P15 | 40 | 821020865X | | 60x80x29 | 28 |
| 180 | 7890 | 15 | 10490 | 24 | P15 | 40 | 821020865X | | 60x80x29 | 28 |
| 200 | 8770 | 12 | 11650 | 20 | P15 | 50 | 821020866X | | 60x80x31 | 32 |

*Accessories see pag. 49 (See Model and plates number)

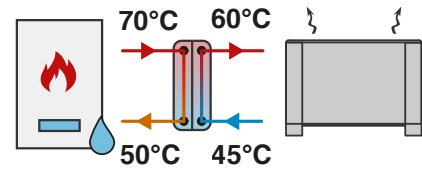
Alternative solution with gasketed heat exchangers: see pag. 42

Tables for fast selection - GASKETED

HEATING with HIGH temperature endpoints

Project conditions 3

| Circuit | Source - endpoint | T _{IN} | T _{OUT} | P _{MAX} | Fluid |
|-----------|----------------------|-----------------|------------------|--|------------------|
| HOT side | Water heater | 70°C | 50°C | 16 bar (WP4) 30 bar (P4-P7-P15-P30) | H ₂ O |
| COLD side | Radiators / Fan Coil | 45°C | 60°C | 16 bar (WP4) 30 bar (P4-P7-P15-P30) | H ₂ O |

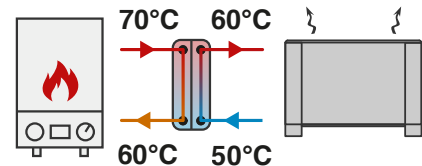


| Power kW | Hot side | | Cold | | Model* | Plates number* | Code | Price | Packaging | |
|-------------|----------|-----|--------|-----|--------|-------------------|------------|-------|------------------|--------------|
| | L/h | kPa | L/h | kPa | | | | | Dimensions cm | Weight kg |
| 15 | 656 | 2 | 872 | 2 | WP4 | 14 | 821021101X | | 43x22x24 | 3 |
| 25 | 1094 | 6 | 1454 | 8 | WP4 | 14 | 821021101X | | 43x22x24 | 3 |
| 35 | 1531 | 5 | 2035 | 8 | WP4 | 20 | 821021102X | | 43x22x24 | 4 |
| 50 | 2187 | 4 | 2907,5 | 7 | WP4 | 30 | 821021103X | | 43x22x24 | 5 |
| 75 | 3281 | 6 | 4361 | 10 | WP4 | 40 | 821021104X | | 43x22x24 | 6 |
| 100 | 4370 | 14 | 5820 | 22 | P7 | 50 | 821020856X | | 60x80x31 | 15 |
| 115 | 5030 | 10 | 6690 | 16 | P7 | 70 | 821020858X | | 60x80x37 | 19 |
| 130 | 5690 | 13 | 7560 | 20 | P7 | 70 | 821020858X | | 60x80x37 | 19 |
| 150 | 6560 | 10 | 8720 | 18 | P15 | 40 | 821020865X | | 60x80x29 | 28 |
| 180 | 7870 | 10 | 10470 | 17 | P15 | 50 | 821020866X | | 60x80x31 | 32 |
| 200 | 8750 | 12 | 11630 | 20 | P15 | 50 | 821020866X | | 60x80x31 | 32 |

*Accessories see pag. 49 (See Model and plates number)

Project conditions 4

| Circuit | Source - endpoint | T _{IN} | T _{OUT} | P _{MAX} | Fluid |
|-----------|----------------------|-----------------|------------------|--|------------------|
| HOT side | Water heater | 70°C | 60°C | 16 bar (WP4) 30 bar (P4-P7-P15-P30) | H ₂ O |
| COLD side | Radiators / Fan Coil | 50°C | 60°C | 16 bar (WP4) 30 bar (P4-P7-P15-P30) | H ₂ O |



| Power kW | Hot side | | Cold | | Model* | Plates number* | Code | Price | Packaging | |
|-------------|----------|-----|-------|-----|--------|-------------------|------------|-------|------------------|--------------|
| | L/h | kPa | L/h | kPa | | | | | Dimensions cm | Weight kg |
| 15 | 1315 | 9 | 1310 | 6 | WP4 | 14 | 821021101X | | 43x22x24 | 3 |
| 25 | 2192 | 18 | 2182 | 13 | WP4 | 20 | 821021102X | | 43x22x24 | 4 |
| 35 | 3069 | 10 | 3056 | 8 | WP4 | 30 | 821021103X | | 43x22x24 | 5 |
| 50 | 4384 | 12 | 4366 | 10 | WP4 | 40 | 821021104X | | 43x22x24 | 6 |
| 75 | 6580 | 17 | 6550 | 16 | P7 | 70 | 821020858X | | 60x80x37 | 19 |
| 100 | 8770 | 18 | 8730 | 18 | P15 | 40 | 821020865X | | 60x80x29 | 28 |
| 115 | 10080 | 23 | 10040 | 23 | P15 | 40 | 821020865X | | 60x80x29 | 28 |
| 130 | 11400 | 19 | 11350 | 19 | P15 | 50 | 821020866X | | 60x80x31 | 32 |
| 150 | 13150 | 18 | 13100 | 18 | P15 | 60 | 821020867X | | 60x80x34 | 36 |
| 180 | 15780 | 20 | 15720 | 20 | P15 | 70 | 821020868X | | 60x80x36 | 40 |
| 200 | 17540 | 24 | 17460 | 24 | P15 | 70 | 821020868X | | 60x80x36 | 40 |

*Accessories see pag. 49 (See Model and plates number)

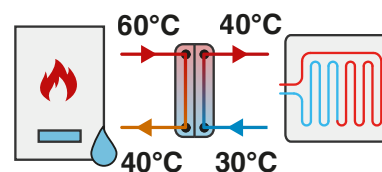
Alternative solution with gasketed heat exchangers: see pag. 43

Tables for fast selection - BRAZED

HEATING with LOW temperature endpoints

Project conditions 1

| Circuit | Source - endpoint | T _{IN} | T _{OUT} | P _{MAX} | Fluid |
|-----------|----------------------------|-----------------|------------------|--|------------------|
| HOT side | Water heater | 60°C | 40°C | 16 bar (WP4) 30 bar (P4-P7-P15-P30) | H ₂ O |
| COLD side | Radiating floor / Fan Coil | 30°C | 40°C | 16 bar (WP4) 30 bar (P4-P7-P15-P30) | H ₂ O |

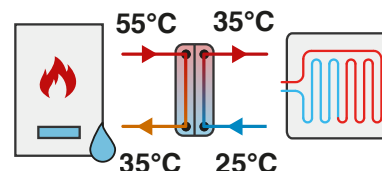


| Power kW | Hot side | | Cold | | Model* | Plates number* | Code | Price | Packaging | |
|-------------|----------|-----|-------|-----|--------|-------------------|------------|-------|------------------|--------------|
| | L/h | kPa | L/h | kPa | | | | | Dimensions cm | Weight kg |
| 15 | 654 | 2 | 1300 | 6 | WP4 | 14 | 821021101X | | 43x22x24 | 3 |
| 25 | 1089 | 2 | 2166 | 10 | WP4 | 20 | 821021102X | | 43x22x24 | 4 |
| 35 | 1525 | 2 | 3033 | 8 | WP4 | 30 | 821021103X | | 43x22x24 | 5 |
| 50 | 2178,5 | 1 | 4333 | 7 | WP4 | 40 | 821021104X | | 43x22x24 | 6 |
| 75 | 3270 | 5 | 6500 | 16 | P7 | 70 | 821020858X | | 60x80x37 | 19 |
| 100 | 4360 | 5 | 8670 | 19 | P15 | 40 | 821020865X | | 60x80x29 | 28 |
| 115 | 5010 | 5 | 9970 | 16 | P15 | 50 | 821020866X | | 60x80x31 | 32 |
| 130 | 5660 | 6 | 11270 | 20 | P15 | 50 | 821020866X | | 60x80x31 | 32 |
| 150 | 6540 | 5 | 13000 | 19 | P15 | 60 | 821020867X | | 60x80x34 | 36 |
| 180 | 7540 | 6 | 15600 | 21 | P15 | 70 | 821020868X | | 60x80x36 | 40 |
| 200 | 8710 | 7 | 17330 | 25 | P15 | 70 | 821020868X | | 60x80x36 | 40 |

*Accessories see pag. 49 (See Model and plates number)

Project conditions 2

| Circuit | Source - endpoint | T _{IN} | T _{OUT} | P _{MAX} | Fluid |
|-----------|-------------------|-----------------|------------------|--|------------------|
| HOT side | Water heater | 55°C | 35°C | 16 bar (WP4) 30 bar (P4-P7-P15-P30) | H ₂ O |
| COLD side | Radiating floor | 25°C | 35°C | 16 bar (WP4) 30 bar (P4-P7-P15-P30) | H ₂ O |



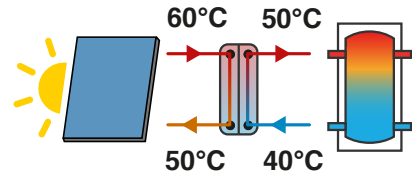
| Power kW | Hot side | | Cold | | Model* | Plates number* | Code | Price | Packaging | |
|-------------|----------|-----|-------|-----|--------|-------------------|------------|-------|------------------|--------------|
| | L/h | kPa | L/h | kPa | | | | | Dimensions cm | Weight kg |
| 15 | 652 | 2 | 1298 | 6 | WP4 | 14 | 821021101X | | 43x22x24 | 3 |
| 25 | 1087 | 2 | 2163 | 10 | WP4 | 20 | 821021102X | | 43x22x24 | 4 |
| 35 | 1522 | 2 | 3028 | 8 | WP4 | 30 | 821021103X | | 43x22x24 | 5 |
| 50 | 2174 | 2 | 4325 | 11 | WP4 | 40 | 821021104X | | 43x22x24 | 6 |
| 75 | 3260 | 5 | 6490 | 17 | P7 | 70 | 821020858X | | 60x80x37 | 19 |
| 100 | 4350 | 5 | 8650 | 19 | P15 | 40 | 821020865X | | 60x80x29 | 28 |
| 115 | 5000 | 5 | 9950 | 17 | P15 | 50 | 821020866X | | 60x80x31 | 32 |
| 130 | 5650 | 6 | 11250 | 21 | P15 | 50 | 821020866X | | 60x80x31 | 32 |
| 150 | 6520 | 5 | 12980 | 20 | P15 | 60 | 821020867X | | 60x80x34 | 36 |
| 180 | 7830 | 6 | 15570 | 21 | P15 | 70 | 821020868X | | 60x80x36 | 40 |
| 200 | 8700 | 7 | 17300 | 26 | P15 | 70 | 821020868X | | 60x80x36 | 40 |

*Accessories see pag. 49 (See Model and plates number)

Alternative solution with gasketed heat exchangers: see pag. 44

Tables for fast selection - GASKETED HEATING with Thermal Solar

| Circuit | Source - endpoint | T _{IN} | T _{OUT} | P _{MAX} | Fluid |
|--|-------------------|-----------------|------------------|--|------------------|
| HOT side | Solar panel | 60°C | 50°C | 16 bar (WP4) 30 bar (P4-P7-P15-P30) | Glic. 30% |
| COLD side Heating / Domestic Hot Water | | 40°C | 50°C | 16 bar (WP4) 30 bar (P4-P7-P15-P30) | H ₂ O |



| Power kW | Hot side | | Cold | | Model* | Plates number* | Code | Price | Packaging | |
|-------------|----------|-----|------|-----|--------|-------------------|------------|-------|------------------|--------------|
| | L/h | kPa | L/h | kPa | | | | | Dimensions cm | Weight kg |
| 20 | 1807 | 3 | 1740 | 2 | WP4 | 30 | 821021103X | | 43x22x24 | 5 |
| 35 | 3162 | 6 | 3044 | 4 | WP4 | 40 | 821021104X | | 43x22x24 | 6 |
| 50 | 4520 | 10 | 4350 | 8 | P7 | 70 | 821020858X | | 60x80x37 | 19 |
| 75 | 6770 | 13 | 6520 | 11 | P15 | 40 | 821020865X | | 60x80x29 | 28 |
| 100 | 9030 | 15 | 8700 | 12 | P15 | 50 | 821020866X | | 60x80x31 | 32 |

*Accessories see pag. 49 (See Model and plates number)

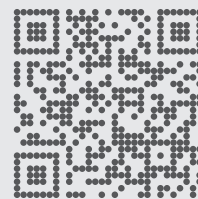
The solar thermal makes it roughly 0.8 kW/m².
Example 10 Fiorini collectors H2500 (pag. 254) is equal to 25m²= 20kW

Alternative solution with gasketed heat exchangers: see pag. 46



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