

Compact energy distribution station

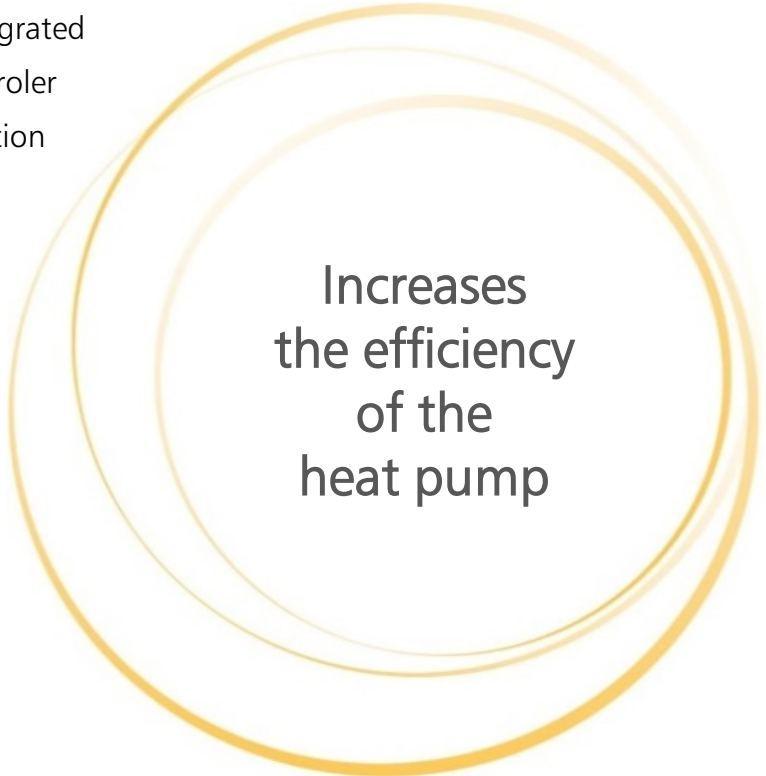


IS-EnergyRouter

Application :

- ▶ ERS heat pump system
- ▶ Heating and cooling
- ▶ New construction and refurbishment
- ▶ Domestic, industrial and hotel buildings

- ▶ Increased solar energy yield by using the solar energy as a heat source for the heat pump
- ▶ Hydraulic unit for connecting different energy sources with the IS-WP ERS heat pump
- ▶ The energy flows are optimized and increases the efficiency of the heat pump
- ▶ Increased solar collector yield by optimising the source temperature
- ▶ High-efficiency pumps and flow sensors integrated
- ▶ Control of the EnergyRouter via e-TALK controller
- ▶ Low installation costs thanks to plug-in solution
- ▶ Connects the heat source with solar energy
- ▶ Optimization of different heat sources
- ▶ Efficient use of renewable energy
- ▶ All connections with ball valves
- ▶ All tubes are diffusion resistant
- ▶ Maintenance friendly



**Increases
the efficiency
of the
heat pump**

IS-EnergyRouter

| | DN 40 | DN 50 | DN 65 | DN 80 |
|-----------------------------------|-----------------------------------|--------|---------------|--------|
| Housing | | | | |
| Dimensions (W x H x T) mm | 1079 x 970 x 433 | | 1400x1250x455 | |
| Weight kg | 92 kg | 113 kg | 170 kg | 210 kg |
| Material Housing | Powder coated steel sheet | | | |
| Insulation | all tubes are diffusion resistant | | | |
| Connections | | | | |
| Ground (heat pump) supply/return | DN 40 | DN 50 | DN65 | DN80 |
| Heating (heat pump) supply/return | DN 40 | DN 50 | DN65 | DN80 |
| Source supply/return | DN 40 | DN 50 | DN65 | DN80 |
| Solar supply/return | DN 32 | DN 40 | DN50 | DN65 |
| Hot water supply/return | DN 40 | DN 50 | DN65 | DN80 |
| Heating supply/return | DN 40 | DN 50 | DN65 | DN80 |

| | | | | |
|--|-------------------|-------------------|-------------------|-------------------|
| Geothermal | | | | |
| Geothermal pump Wilo | Stratos 40 / 1-8 | Stratos 50 / 1-12 | Stratos 65 / 1-12 | Stratos 80 / 1-12 |
| Mixer | 60 sec. / 90 Grad | | | |
| Max. allowable external pressure drop* | 750 mbar | 850 mbar | 800 mbar | 850 mbar |
| Max. flow rate | 6000 l/h | 9000 l/h | 12000 l/h | 15000 l/h |
| Max. pressure | 6 bar | | | |

| | | | | |
|--|-----------------------|-------------------|------------------|------------------|
| Heating/Hot water | | | | |
| Heating pump wilo | Stratos Para 30 / 1-8 | Stratos 40 / 1-12 | Stratos 65 / 1-8 | Stratos 80 / 1-8 |
| Mixer motor | 60 sec. / 90 Grad | | | |
| Max. allowable external pressure drop* | 400 mbar | 650 mbar | 400 mbar | 450 mbar |
| Max. flow rate | 4500 l/h | 6500 l/h | 9000 l/h | 12000 l/h |
| Max. pressure | 6 bar | | | |

| | | | | |
|---------------------------|---------|--|--|--|
| Data | | | | |
| Max. system temperature | 85 °C | | | |
| Min. system temperature | - 8 °C | | | |
| Max. system pressure | 6 bar | | | |
| Flow rate sensor | Impulse | | | |
| Max. resistance to glycol | 40% | | | |

| | | | | |
|-------------------|--|--|--|--|
| Controller | | | | |
| None | selection via e-TALK controler heat pump | | | |

| | | | | |
|------------------------|---------------|--|--|--|
| Electrical data | | | | |
| Voltage | 230 V / 50 Hz | | | |
| Type of protection | IP 24 | | | |

| | | | | |
|-------------|------------|------------|------------|------------|
| Product no. | 12 10 3240 | 12 10 4050 | 12 10 0065 | 12 10 0080 |
|-------------|------------|------------|------------|------------|

*at max. flow rate



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