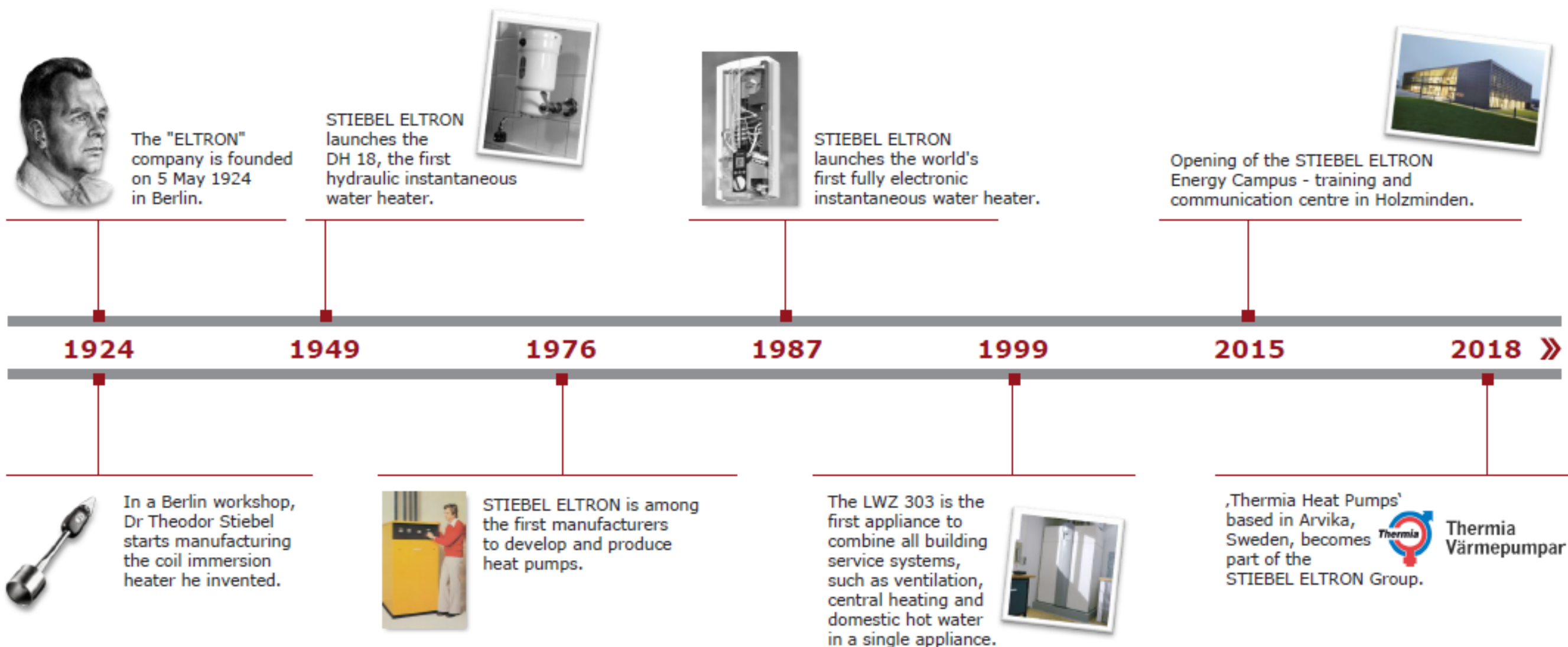




Stiebel Eltron Presentation

About us – STIEBEL ELTRON is Full of Energy



Global Production Facilities



Holzminden Germany

Global sales and administrative organisation

Production facility for heat pumps, instantaneous water heaters, domestic hot water cylinders etc.



Eschwege Germany

Plastic Parts and
Small Water Heaters



Ayutthaya Thailand

Small Instantaneous Water
Heaters and Shower Units



Poprad Slovakia

DHW Cylinders
and Heat Pumps



Tianjin China

Electric Room Heaters



Arvika Sweden

Heat Pumps

Product Portfolio ; More than 3500 products.



Tankless Water Heater



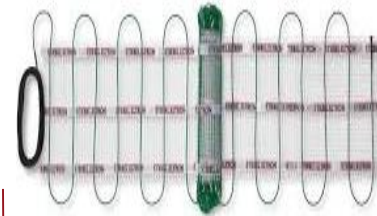
Heat Pumps



Water Filtration



Storage Water Heater



Electric Heating



Ventilation

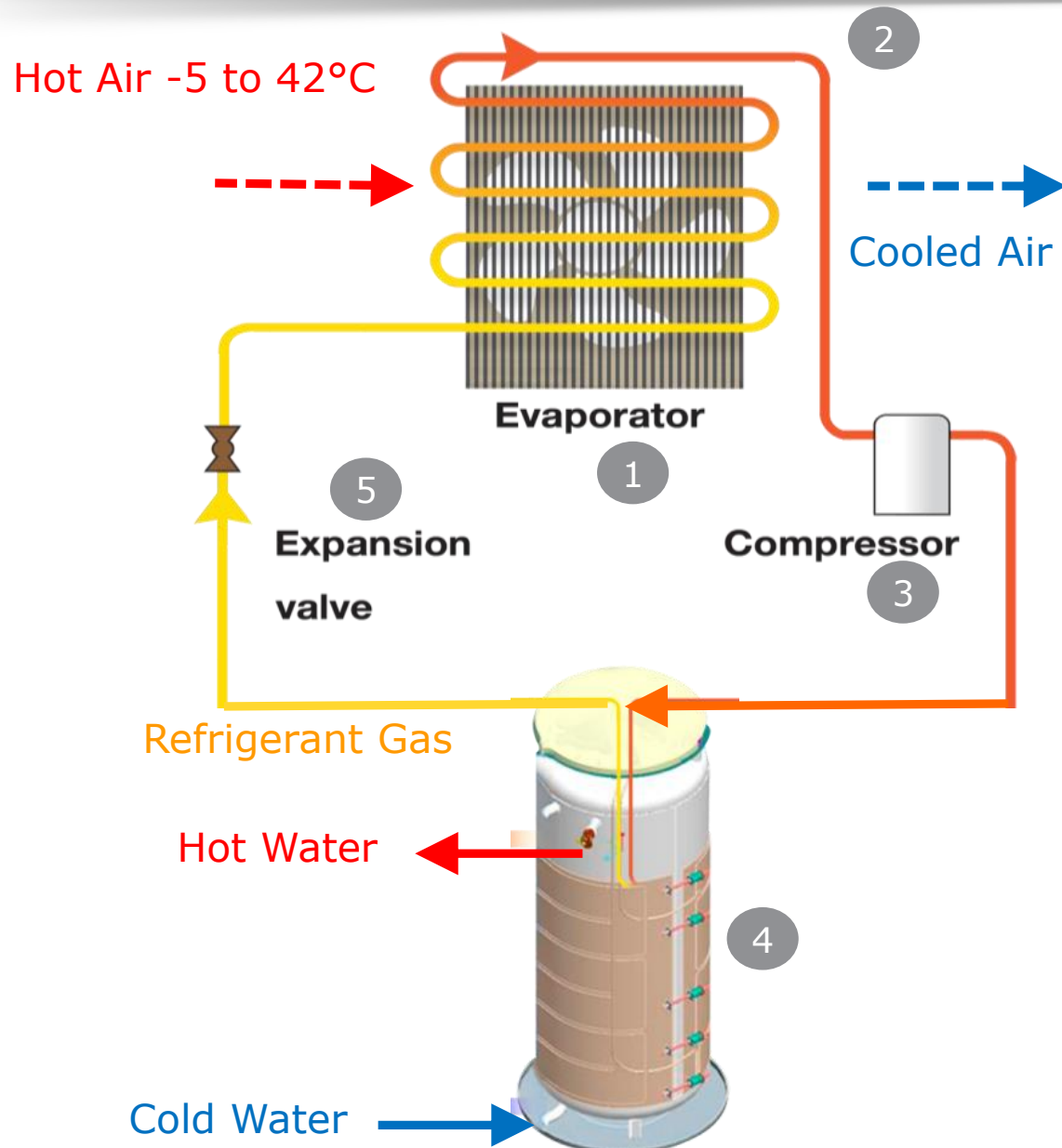


Hand Dryer



Air to Water Heat Pump

Heat Pumps – Air to water - Function



Heat pump transfer the heat from one place to another place. The heat pump takes heat from atmosphere, that heat transferred into water through heat exchanger .

Heat Pump Cycle Starts with followings sequences ,

1. **Evaporator** :- Collects heat from nature.
2. **Refrigerant Liquid** :- heat is absorbed in liquid.
3. **Compressor** :- Refrigerant liquid compressed in compressor at high pressure. So heat multiplies.
4. **Heat Exchanger** :- Heat transferred into water through heat exchangers.
5. **Expansion valve** :- Expansion valve cools the liquid for better heat collection.

Again cycle starts with evaporator.....

Pioneer In Heat pumps Technology – Since 1976

- ❑ **45 years of experience** in heat pumps development and manufacturing.
- ❑ More than **180 heat pumps** in portfolio
- ❑ Heat for domestic, institutional and commercial application



WWK 302 H
& 222 H



WPL 10 AC



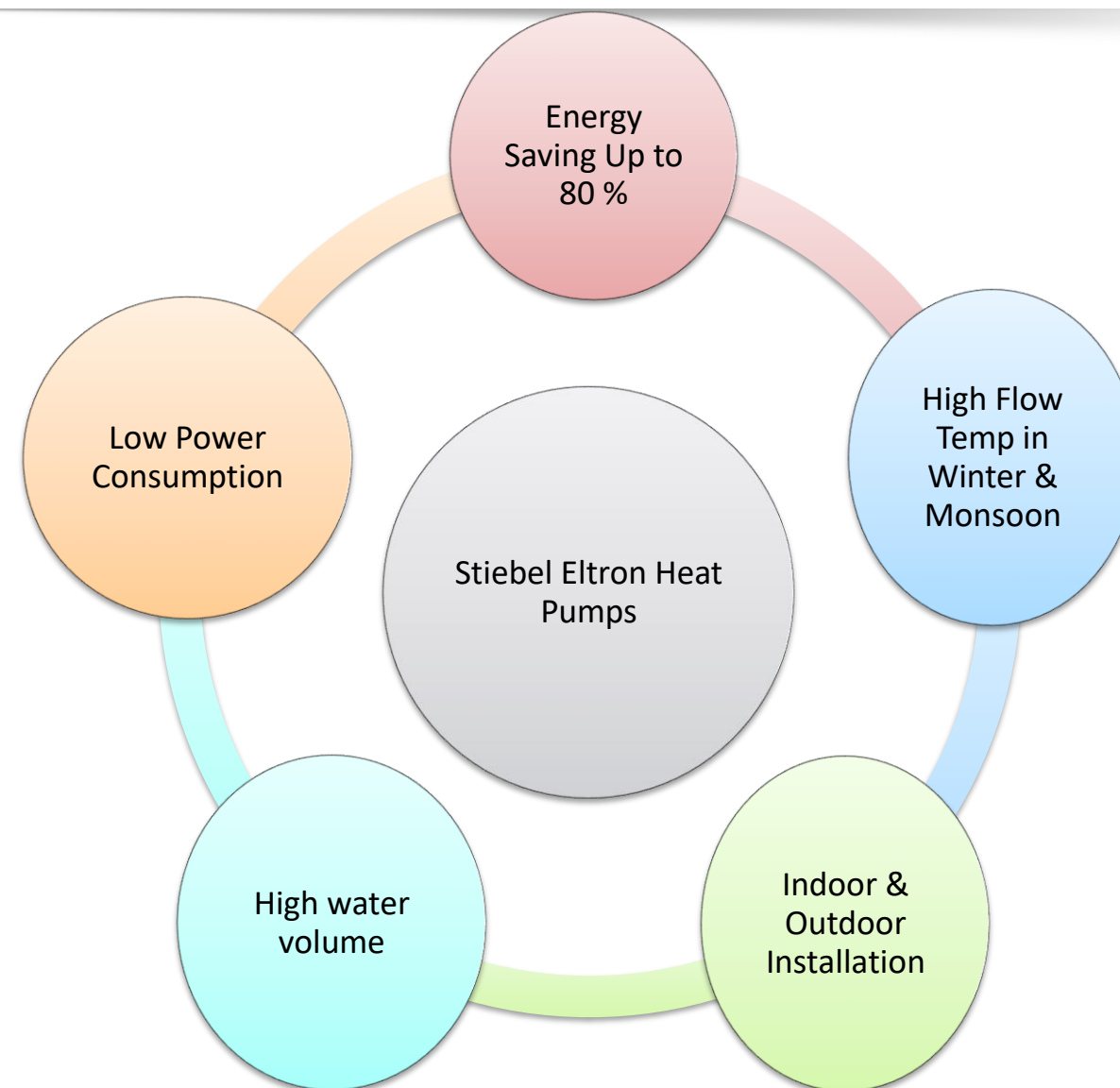
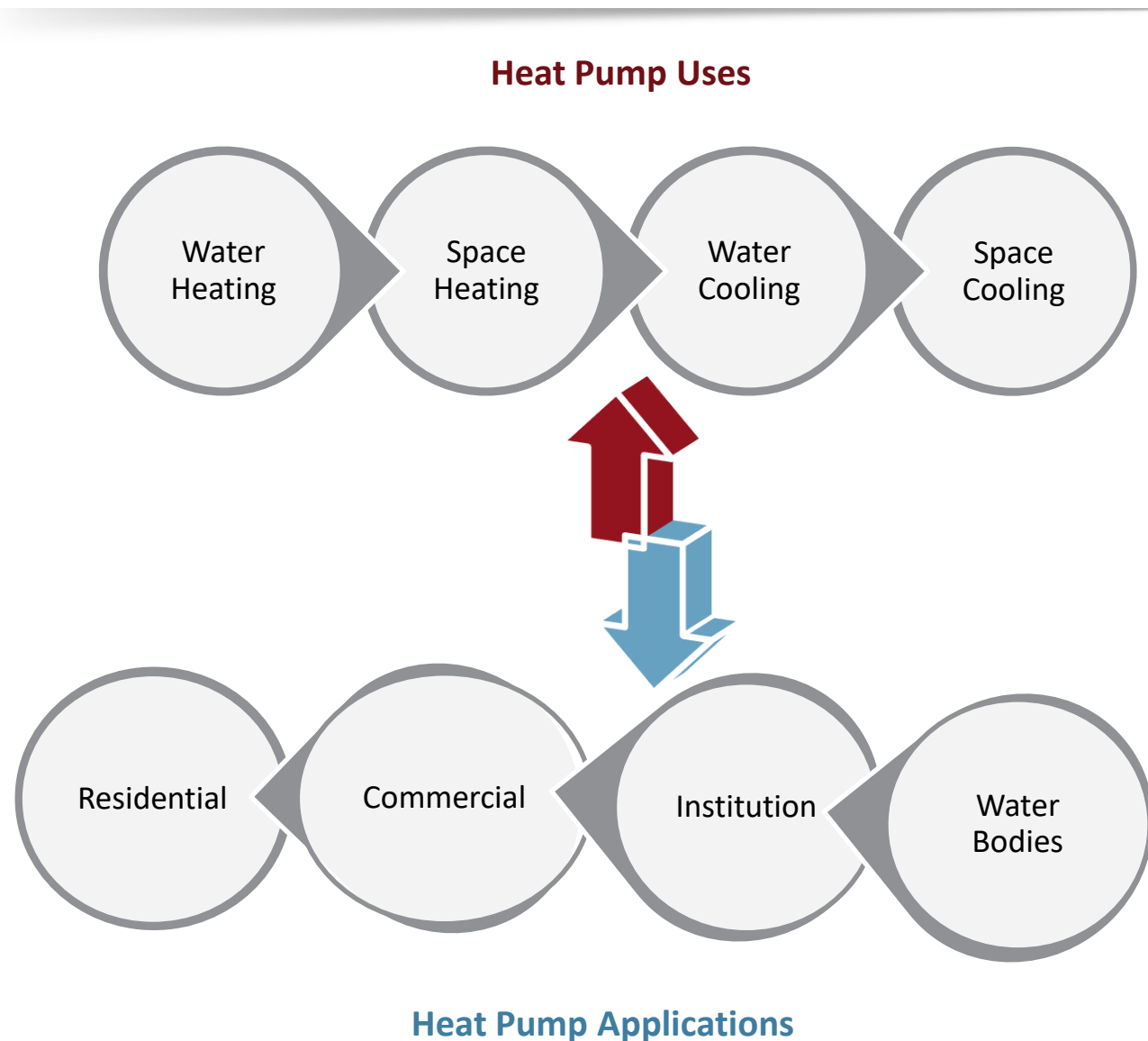
WPL 13,18 & 23 E



WPL 47 & 57



Heat Pumps – Uses and Application ; Advantages



Domestic Heat Pumps – WWK Series



WWK 222 (H)

- Power Consumption :- 540 W/hr
- Plug and Play model
- Indoor and outdoor installation
- SS inner tank with Hot deep coated
- Low maintenance
- Thick puff insulation keeps temp maintained - up to 5 days

Model	WWK 222 H	WWK 302 H
Energy Class	A	A
Input and out Power	.54 Kw (1/N/PE) / 2.48 kW	.54 Kw 1/N/PE) / 2.48 kW
Max Heating Temperature	60°C	60°C
COP	4.6	4.6
Sound from 1meter distance	45 db(A)	45 db(A)
Min & Max Application limit heat source	- 5 to 42	-5 to 42
Refrigerant and Charge	R134a/850 g	R134a/850 g
Heat Exchanger	Plate Heat Exchanger	Plate Heat Exchanger
Compressor	Scroll	Scroll
IP Rating	IP 24	IP 24
Tank Insulation	50 mm Puff	50 mm Puff
Inner tank	Steeliness Steel	Steeliness Steel
Unit Weight Empty	120 kg	135 kg
Dimension(Height/Diameter) in mm	1545/690	1913/690



WWK 302 (H) 9

Schematic Design and Features

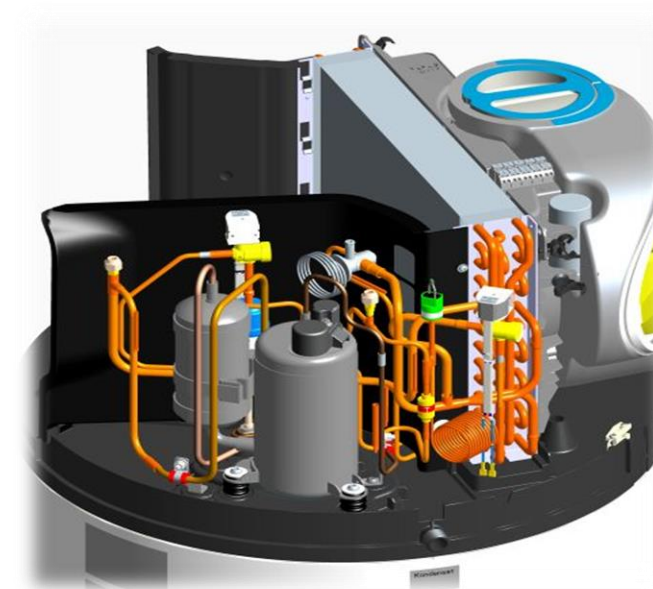
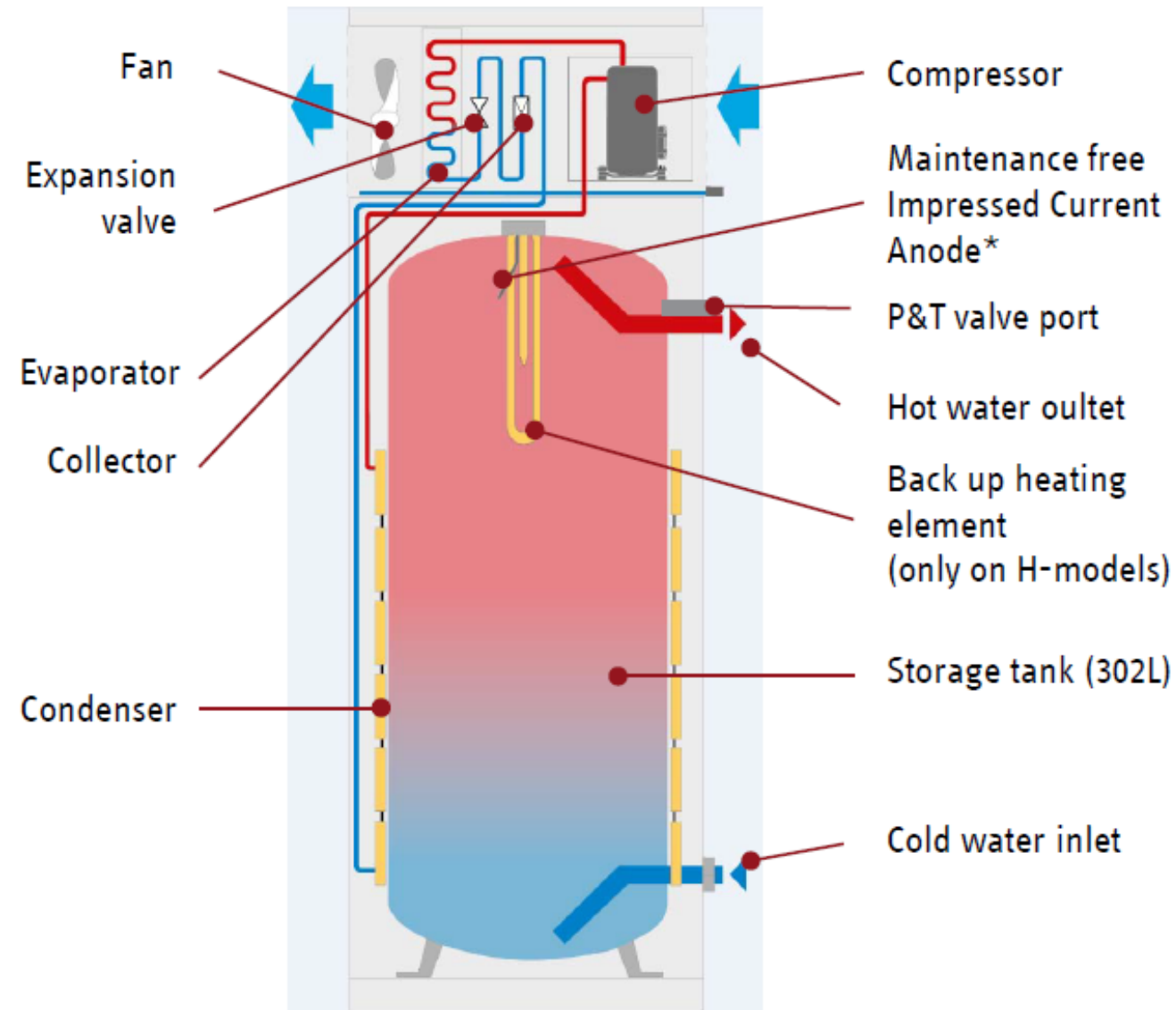
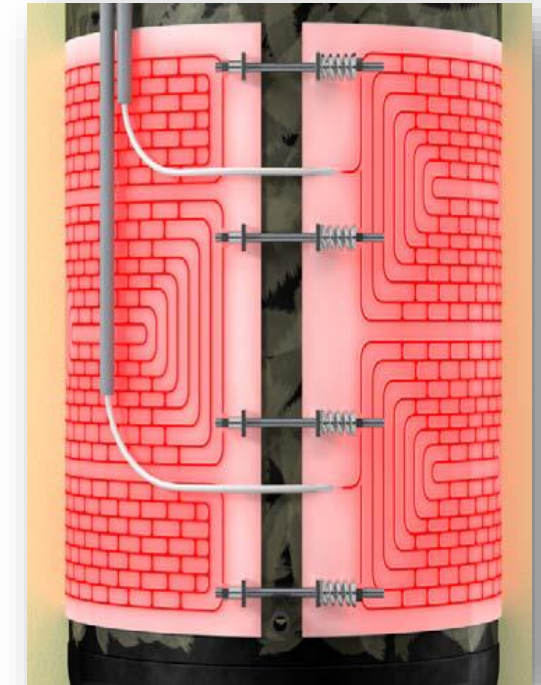


Plate Heat Exchanger

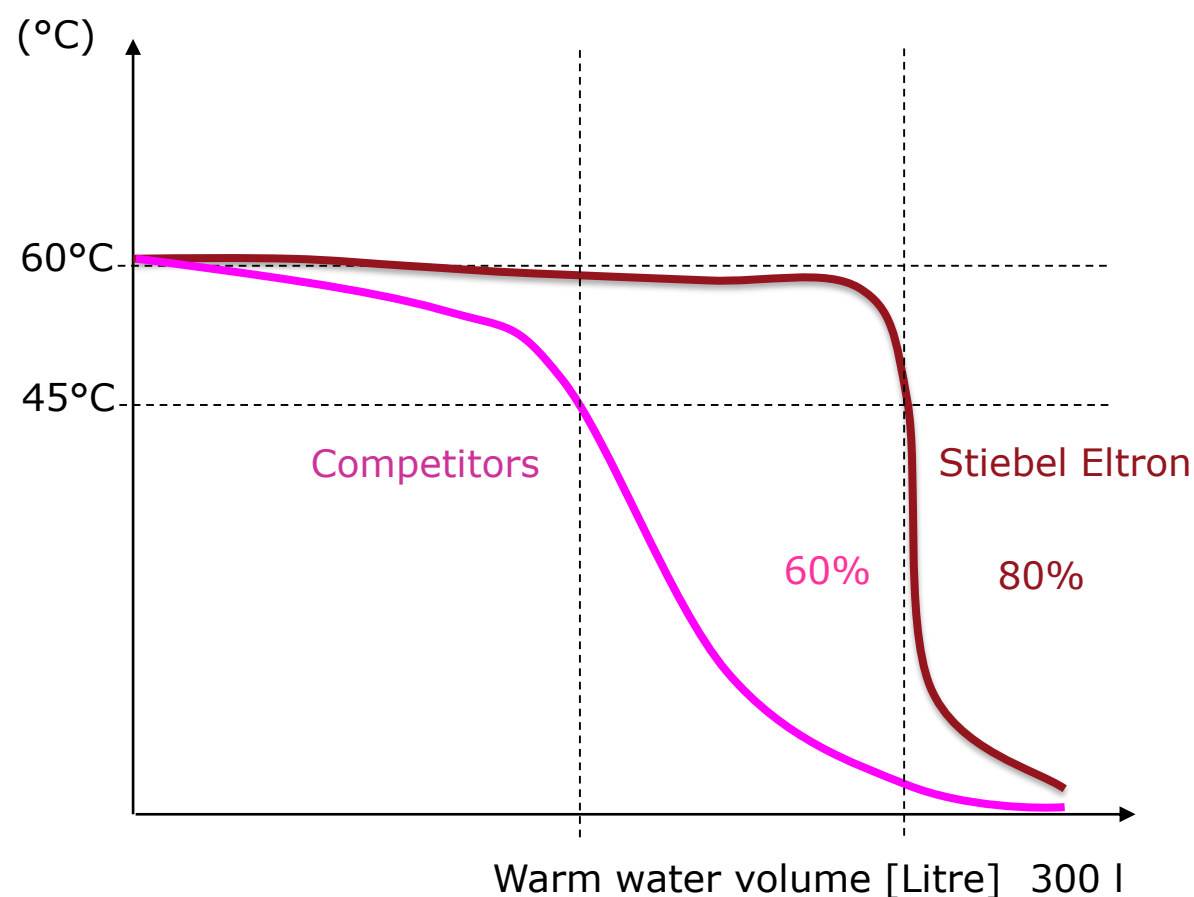


Scroll Compressor

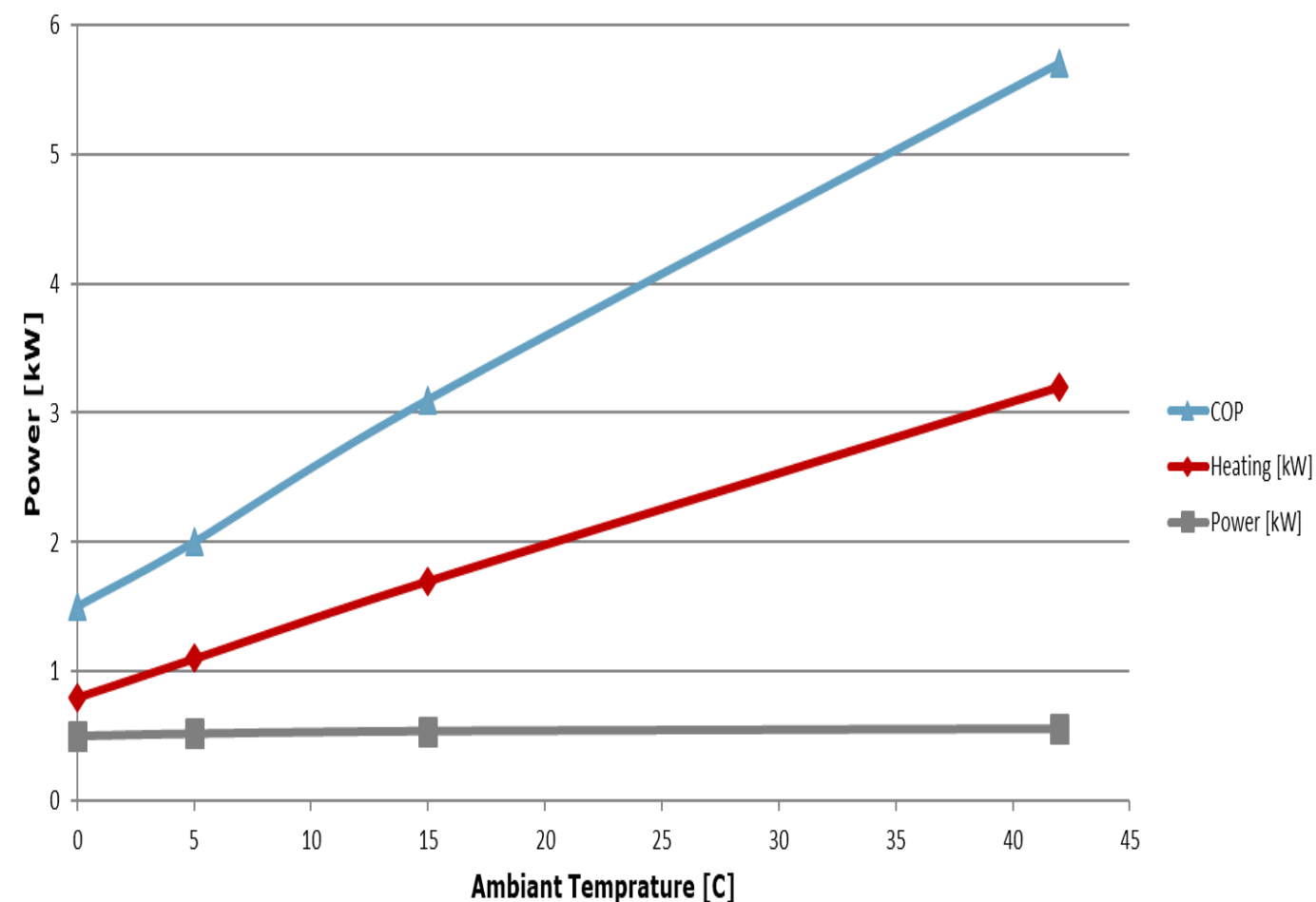


Output Pattern

Up to 240 liter of hot water can drawn @60 degree



Input / Output [kW] and COP



Heat Pump For Commercial and Institutional – WPL Features



- ☐ Air To Water Heat Pumps
- ☐ A ++ Energy Rating – European standard (best in the Class)
- ☐ Up to 80 % cost saving in Electricity Bills
- ☐ 1:5 Heat Output
- ☐ Heating and Cooling both option with one machine
- ☐ Compact design - Space Saving
- ☐ Fixable with Existing Hot Water System e.g. Solar thermal
- ☐ Inverter Technology – Energy Saving
- ☐ Low Maintenance

- Heat pump start and stop through controller
- LCD display
- Temperature based Control on heat pump
- 7 Day Programmable
- Service Mode
- Self Learning mode

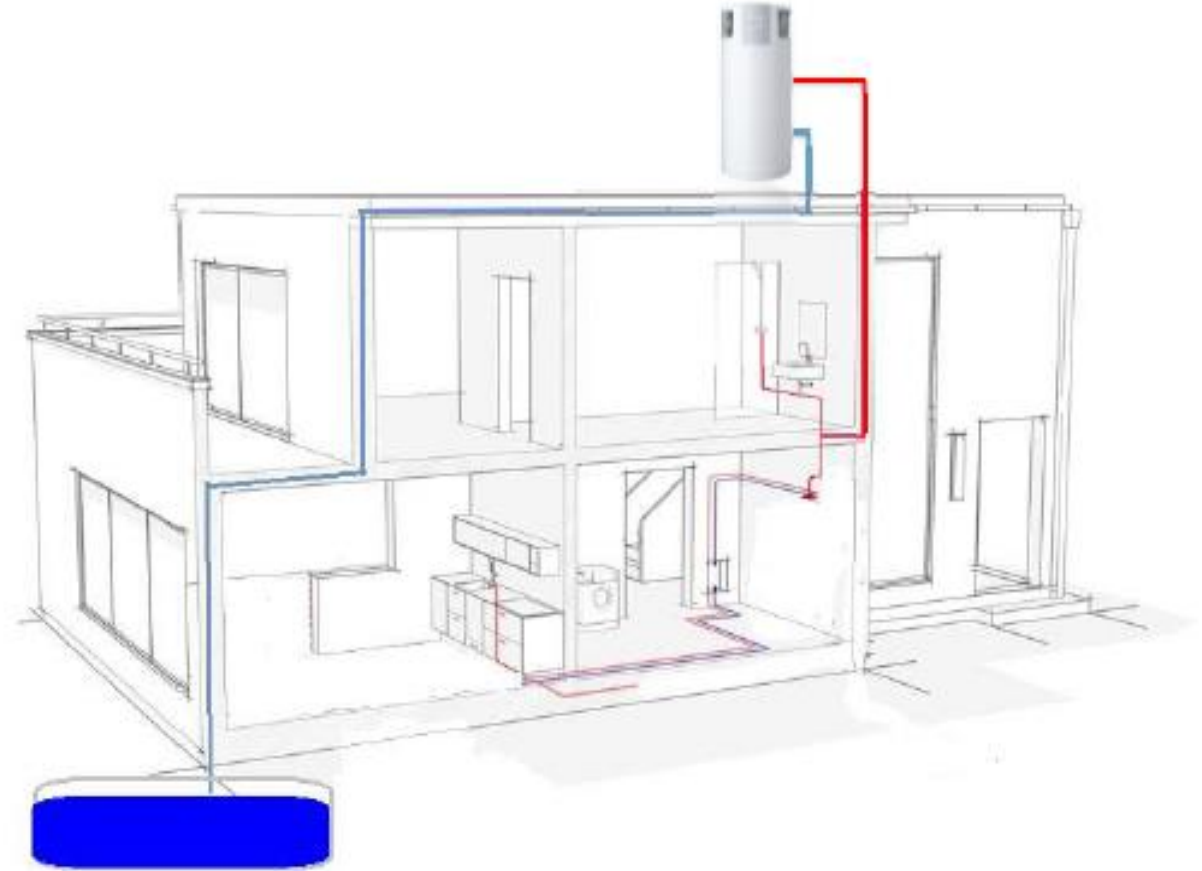
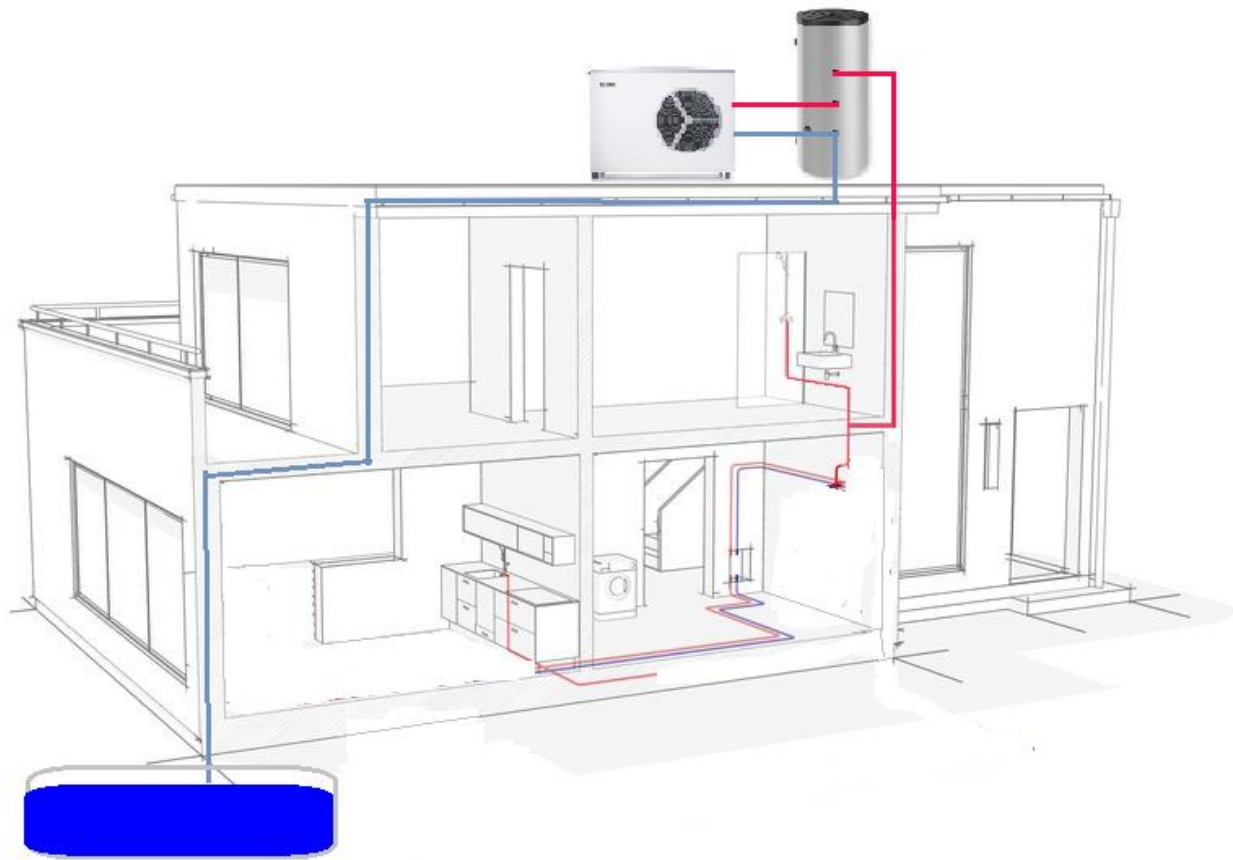


Touch Pad For Operating Heat Pump

Product Specification – WPL 10AC/13/18/23 E and Cool

Model	WPL 10 AC	WPL 13 E	WPL 13 Cool	WPL 18 E	WPL 18 Cool	WPL 23 E
Energy Class	A+	A++	A++	A++	A++	A++
Input Power	2.06 Kw (3 Phase)	4.4 Kw (3 Phase)	4.1 Kw (3 Phase)	5.2 Kw (3 Phase)	5.3 Kw (3 Phase)	7.6 Kw (3 Phase)
Max Heating Temperature	60°C	65°C	65°C	65°C	65°C	65°C
COP	4.6	4.6	4.6	4.6	4.6	4.6
Sound from 1meter distance	45 db(A)	45 db(A)	45 db(A)	45 db(A)	45 db(A)	45 db(A)
Min & Max Application limit heat source	- 20 to 40	- 20 to 40	- 20 to 40	- 20 to 40	- 20 to 40	- 20 to 40
Refrigerant /Charge	R407c	R407c/3.2 kg	R407c/5.9 kg	R407c/3.2 kg	R407c/5.2 kg	R407c/3.4 kg
Heat Exchanger	Plate Heat Exchanger	Plate Heat Exchanger	Plate Heat Exchanger	Plate Heat Exchanger	Plate Heat Exchanger	Plate Heat Exchanger
Inverter Compressor	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
IP Rating	IP 14 B	IP 14 B	IP 14 B	IP 14 B	IP 14 B	IP 14 B
Connection Flow and Return	G 1 1/4	G 1 1/4	G 1 1/4	G 1 ¼	G 1 ¼	G 1 ¼
PCB	Inverter PCB	Inverter PCB	Inverter PCB	Inverter PCB	Inverter PCB	Inverter PCB
Defrost Type	Circuit Reversal	Circuit Reversal	Circuit Reversal	Circuit Reversal	Circuit Reversal	Circuit Reversal
Unit Weight Empty	120 kg	205 kg	210 kg	212 kg	214 kg	211 kg
Outdoor Dimension(H/W/D) in mm	900/1270/593	1434/1240/1280	1434/1240/1280	1434/1240/1280	1434/1240/1280	1434/1240/1280

Installation Example



Thank you very much!

STIEBEL ELTRON INDIA PVT LTD.

**704, Phoenix East Court,
Viman Nagar,Pune 411014,
Maharashtra,India.**

Tel : +91-20-67480909

Email : info@stiebel-eltron.in

www.stiebel-eltron.in