

*Zehnder towel rails for  
central heating, dual energy  
and electric-only installations*

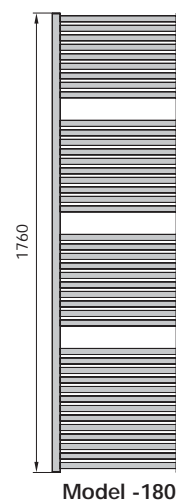
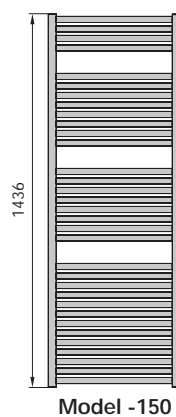
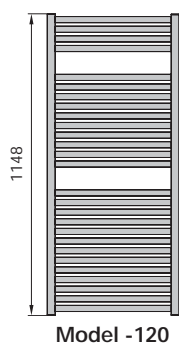
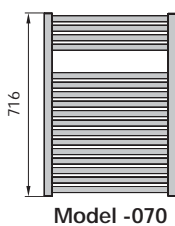
**zehnder**



zehnder *toga*



**Tube-in-tube straight rail ladder radiator.**  
 23mm diameter horizontal tubes.  
 30x35mm 'D' profile header tubes.



# zehnder toga

Toga	Height (mm)	Width (mm)	50ΔT watts	60ΔT watts	Exponent	Allocated dual energy immersion heater
<b>White</b>						
TG070-045	716	450	326	408	1.23	300
TG120-045	1148	450	513	643	1.24	300
TG180-045	1760	450	780	978	1.24	600
TG070-050	716	500	359	449	1.23	300
TG120-050	1148	500	565	708	1.24	300
TG150-050	1436	500	701	880	1.25	600
TG180-050	1760	500	862	1081	1.24	600
TG070-060	716	600	424	530	1.22	300
TG120-060	1148	600	668	837	1.24	600
TG150-060	1436	600	825	1036	1.25	600
TG180-060	1760	600	1028	1286	1.23	900
TG120-075	1148	750	824	1031	1.23	600
TG180-075	1760	750	1276	1594	1.22	1200
<b>Chrome</b>						
TGC120-045	1148	450	359	450	1.24	300
TGC070-050	716	500	251	314	1.23	n/a
TGC120-050	1148	500	396	496	1.24	300
TGC150-050	1436	500	491	617	1.25	300
TGC180-050	1760	500	603	756	1.24	600
TGC120-060	1148	600	468	587	1.24	300
TGC180-060	1760	600	720	901	1.23	600

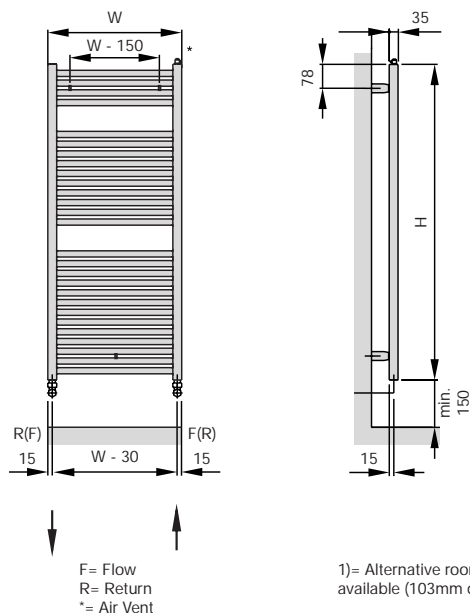
Toga Electric White	Height (mm)	Width (mm)	Electric rating	Toga Electric Chrome	Height (mm)	Width (mm)	Electric rating
<b>Factory fitted with a DBM immersion heater Class 1</b>							
TE-070-050/DD	716	500	300	TEC-070-050/DD	716	500	200
TE-120-050/DD	1148	500	300	TEC-120-050/DD	1148	500	300
TE-150-050/DD	1436	500	600	TEC-150-050/DD	1436	500	500
TE-180-060/DD	1760	600	900	TEC-180-060/DD	1760	600	750

Maximum test pressure: 15 bar

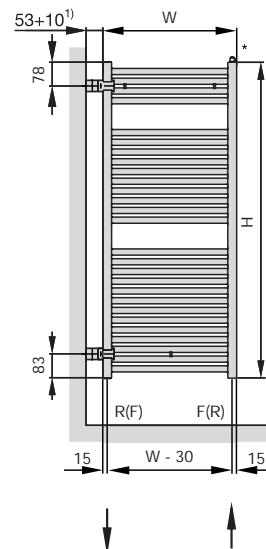
Maximum operating pressure: 11.5 bar

For information on alternative and dual energy immersion heater options, please refer to the back page.

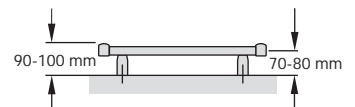
### Standard installations



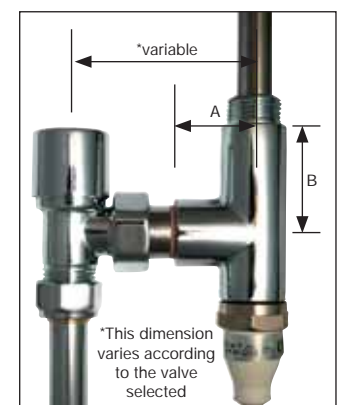
### Room divider installations



1) = Alternative room divider bracket available (103mm distance)



### Dual energy installations

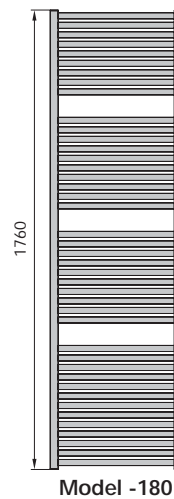
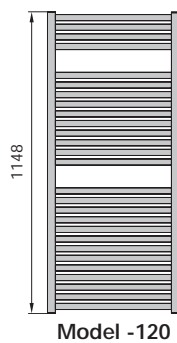
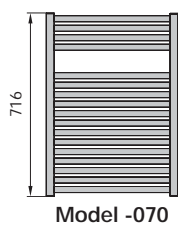


	Dim A	Dim B
DBM (short T-piece)	22mm	17mm
Novar (T-piece as above)	30mm	42mm
Simple Immersion (T-piece as above)	30mm	42mm

zehnder *janda*



**Tube-in-tube curved rail ladder radiator.**  
 23mm diameter horizontal tubes.  
 30x35mm 'D' profile header tubes.



# zehnder janda

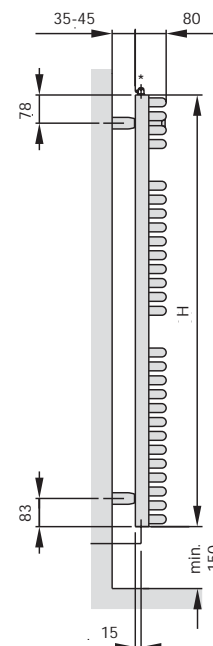
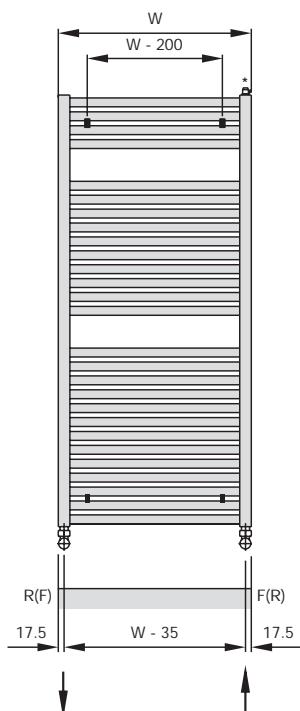
Janda	Height (mm)	Width (mm)	50ΔT watts	60ΔT watts	Exponent	Allocated dual energy immersion heater
<b>White</b>						
JAB070-050	716	495	351	438	1.22	300
JAB120-050	1148	495	548	690	1.26	300
JAB180-050	1760	495	853	1075	1.27	600
JAB070-060	716	595	420	528	1.25	300
JAB120-060	1148	595	653	823	1.27	600
JAB180-060	1760	595	1013	1272	1.25	900
JAB120-075	1148	746	808	1015	1.25	600
JAB180-075	1760	746	1252	1572	1.25	1200
<b>Chrome</b>						
JABC070-050	716	495	251	314	1.23	n/a
JABC120-050	1148	495	396	496	1.24	300
JABC180-050	1760	495	603	756	1.24	600
JABC070-060	716	595	294	369	1.24	300
JABC120-060	1148	595	468	587	1.24	300
JABC180-060	1760	595	720	904	1.25	600
JABC120-075	1148	746	579	727	1.25	900
JABC180-075	1760	746	889	1117	1.25	900

Janda Electric White	Height (mm)	Width (mm)	Electric rating	Janda Electric Chrome	Height (mm)	Width (mm)	Electric rating
<b>Factory fitted with a Novar immersion heater Class 1</b>							
JAE-070-050/ND	716	495	300	JAEC-070-050/NS	716	495	n/a
JAE-120-050/ND	1148	495	300	JAEC-120-050/NS	1148	495	300
JAE-180-050/ND	1760	495	600	JAEC-180-050/NS	1760	495	600
JAE-070-060/ND	716	595	300	JAEC-070-060/NS	716	595	300
JAE-120-060/ND	1148	595	600	JAEC-120-060/NS	1148	595	300
JAE-180-060/ND	1760	595	900	JAEC-180-060/NS	1760	595	600
JAE-120-075/ND	1148	746	600	JAEC-120-075/NS	1148	746	900
JAE-180-075/ND	1760	746	1200	JAEC-180-075/NS	1760	746	900

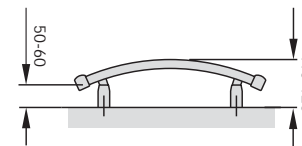
Maximum test pressure: 15 bar

Maximum operating pressure: 11.5 bar

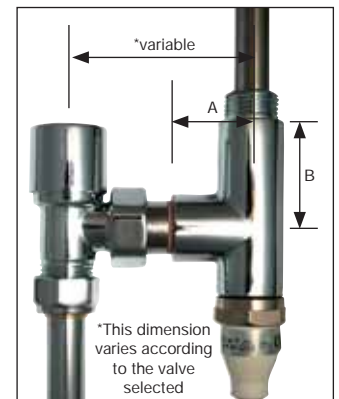
For information on alternative and dual energy immersion heater options, please refer to the back page.



F = Flow  
R = Return  
\* = Air Vent



### Dual energy installations



	Dim A	Dim B
DBM (short T-piece)	22mm	17mm
Novar (T-piece as above)	30mm	42mm
Simple Immersion (T-piece as above)	30mm	42mm

zehnder *universal*

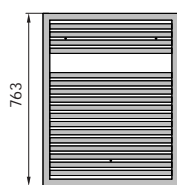


**Tube-in-tube straight rail ladder radiator within a frame.**

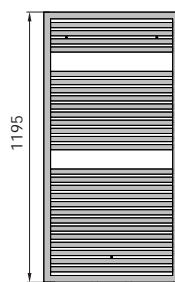
23mm diameter horizontal tubes.

30x30mm square tubed headers.

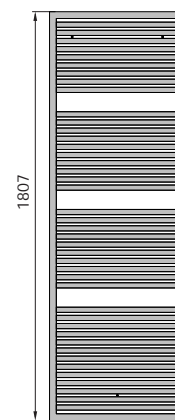
150mm central connection option.



Model -070



Model -120



Model -180

# zehnder *universal*

Universal	Height (mm)	Width (mm)	50ΔT watts	60ΔT watts	Exponent	Allocated dual energy immersion heater
<b>White</b>						
HU-070-050	763	500	401	503	1.24	300
HU-120-050	1195	500	613	771	1.26	600
HU-180-050	1807	500	919	1156	1.26	900
HU-070-060	763	600	477	598	1.24	300
HU-120-060	1195	600	735	925	1.26	600
HU-180-060	1807	600	1093	1373	1.25	900
HU-120-075	1195	750	918	1153	1.25	600
HU-180-075	1807	750	1355	1696	1.23	1200
<b>Chrome</b>						
HUC-070-050	763	500	281	352	1.24	n/a
HUC-120-050	1195	500	429	540	1.26	300
HUC-180-050	1807	500	643	809	1.26	600
HUC-070-060	763	600	334	419	1.24	300
HUC-120-060	1195	600	515	648	1.26	300
HUC-180-060	1807	600	765	961	1.25	600

Universal Electric White	Height (mm)	Width (mm)	Electric rating	Universal Electric Chrome	Height (mm)	Width (mm)	Electric rating
<b>Factory fitted with a Novar immersion heater Class 1</b>							
HE-070-050/ND	763	500	300				
HE-120-050/ND	1195	500	600	HEC-120-050/ND	1195	500	300
HE-180-050/ND	1807	500	900	HEC-180-050/ND	1807	550	600
HE-070-060/ND	763	600	300	HEC-070-060/ND	763	600	300
HE-120-060/ND	1195	600	600	HEC-120-060/ND	1195	600	300
HE-180-060/ND	1807	600	900	HEC-180-060/ND	1807	600	600
HE-120-075/ND	1195	750	900	HEC-120-075/ND	1195	750	600
HE-180-075/ND	1807	750	1200	HEC-180-075/ND	1807	750	900

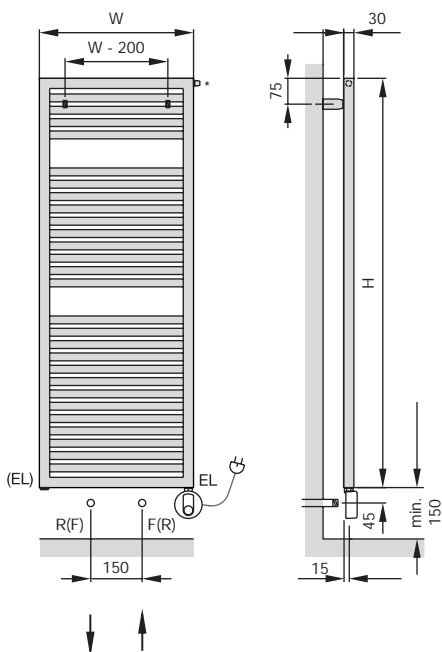
Maximum test pressure: 15 bar

Maximum operating pressure: 11.5 bar

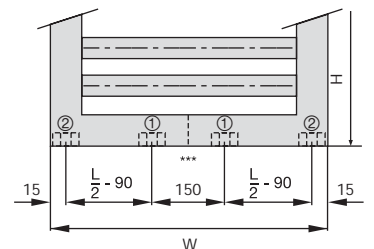
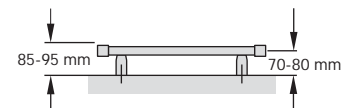
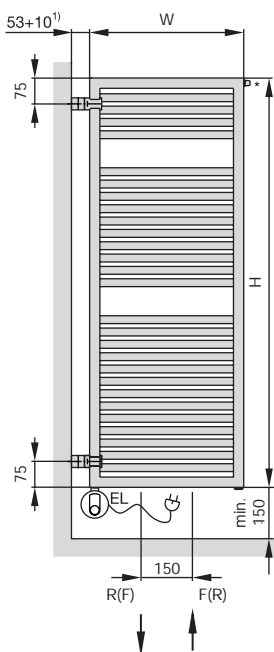
For information on alternative and dual energy immersion heater options, please refer to the back page.

- F= Flow
- R= Return
- \*= Air Vent
- EL= Optional element
- 1)= Alternative room divider bracket available (75mm distance)

### Standard installations



### Room divider installations

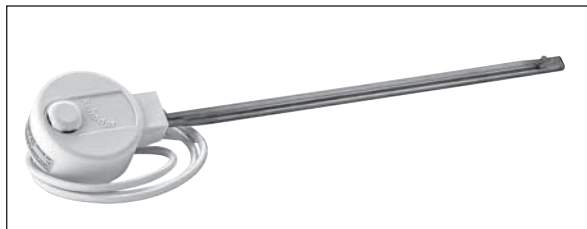


① = 1/2" connection = for central heating  
 ② = 1/2" connection = for immersion heating

## zehnder *electric immersion heater options*

Zehnder's oil-filled electrical radiators are supplied with the immersion heater factory fitted.

**Dual energy installations** can be supplied to order with a Novar, DBM immersion heater with controls, or a simple immersion heater element without controls. They are supplied with a T-piece as standard.



The electronic **Novar** (300w/600w/900w, 1200w IP65 Class 1) has a safety cut-out facility. The standard model has a control switch with 2 fixed temperature settings (50 deg.C or 70 deg.C), a 3-hour timer (70 deg.C) and off.

**Electric only applications:** Factory fitted to the Universal and Janda ranges. Available as self-fit for dual-energy applications. (SPECIAL APPLICATION OPTIONS AVAILABLE TO ORDER)



The **simple immersion** rod (300w/600w/900w, 1200w, IP55, Class 1) is a mechanical heating device with a thermo-fuse. It has no manual controls.

**Electric only applications:** Can be factory fitted to order on the Toga range, but minimum order quantities apply. Available as self-fit for dual-energy applications.



The electronic **DBM** (200w/300w/500w/600w/750w/900w, IP44, Class 1) with its safety cut-out facility has 2 fixed temperature settings (45 deg.C or 70 deg.C), a 2-hour programmable timer and an on/off control switch. (The DBM control is white or chrome dependant on the radiator finish.)

**Electric only applications:** Factory fitted to the Toga range. Available as self-fit for dual-energy applications.

Immersion heaters on electric towel rails are fitted in the right-hand header as standard, but can be fitted in the left hand header on request.

For dual energy operation, immersion heaters should be fitted on the return. The central heating and electrical options should never be used simultaneously. This will damage the unit and invalidate the warranty. In additions, the conflicting heat sources will prevent the correct circulation of the liquid, potentially forming damaging hot-spots.

### Instructions for dual energy operation:

#### Summer use:

Switch off the central heating and vent the radiator.  
Close the flow valve (only)  
Activate the immersion heater as required.

#### Winter Use:

De-activate the immersion heater  
Open the flow valve  
The central heating will heat the rails

