

istra elements & engineering

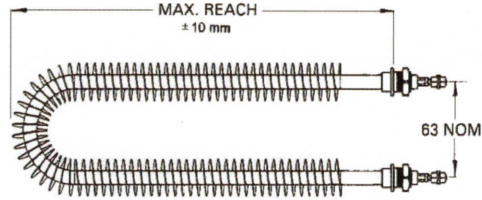
**Stainless Steel
Finned Air
Heaters**

STAINLESS STEEL FINNED AIR HEATERS

WATTS DENSITY 46.5kW/m² SERIES

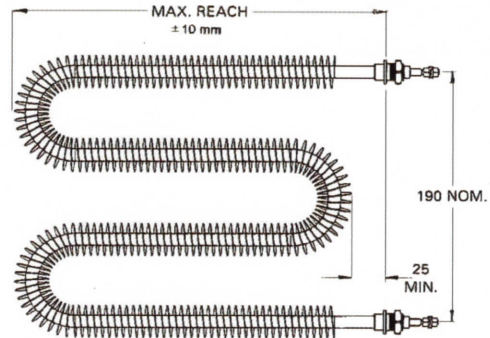
"U" FORM

| Part No. | Watts | Max. Reach | Weight Kg |
|-----------|-------|------------|-----------|
| GW-4061-U | 600 | 230mm | 0.40 |
| GW-4062-U | 750 | 280mm | 0.50 |
| GW-4063-U | 1000 | 378mm | 0.60 |
| GW-4064-U | 1250 | 430mm | 0.75 |
| GW-4065-U | 1500 | 534mm | 1.00 |
| GW-4066-U | 1750 | 580mm | 1.10 |
| GW-4067-U | 2000 | 670mm | 1.25 |
| GW-4069-U | 2500 | 830mm | 1.50 |
| GW-4071-U | 3000 | 980mm | 1.80 |
| GW-4072-U | 3500 | 1164mm | 2.10 |
| GW-4073-U | 4000 | 1280mm | 2.30 |
| GW-4074-U | 4500 | 1468mm | 2.60 |
| GW-4075-U | 5000 | 1580mm | 2.90 |



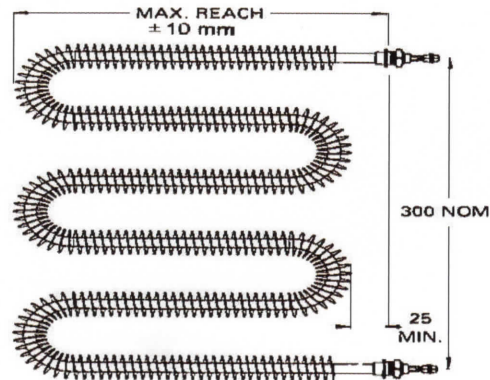
"W" FORM

| Part No. | Watts | Max. Reach | Weight Kg |
|-----------|-------|------------|-----------|
| GW-4062-W | 750 | 155mm | 0.50 |
| GW-4063-W | 1000 | 205mm | 0.60 |
| GW-4064-W | 1250 | 235mm | 0.75 |
| GW-4065-W | 1500 | 285mm | 1.00 |
| GW-4066-W | 1750 | 310mm | 1.10 |
| GW-4067-W | 2000 | 365mm | 1.25 |
| GW-4069-W | 2500 | 435mm | 1.50 |
| GW-4071-W | 3000 | 510mm | 1.80 |
| GW-4072-W | 3500 | 600mm | 2.10 |
| GW-4073-W | 4000 | 660mm | 2.30 |
| GW-4074-W | 4500 | 755mm | 2.60 |
| GW-4075-W | 5000 | 810mm | 2.90 |

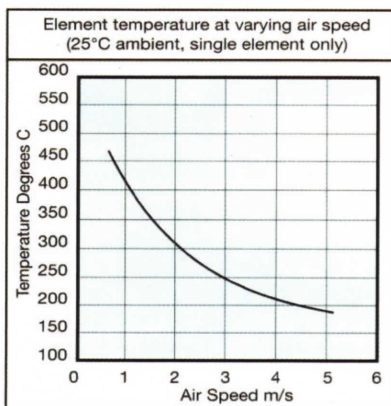


TRIPLE "U" FORM

| Part No. | Watts | Max. Reach | Weight Kg |
|-----------|-------|------------|-----------|
| GW-4065-X | 1500 | 200mm | 1.00 |
| GW-4066-X | 1750 | 215mm | 1.10 |
| GW-4067-X | 2000 | 250mm | 1.25 |
| GW-4069-X | 2500 | 300mm | 1.50 |
| GW-4071-X | 3000 | 350mm | 1.80 |
| GW-4072-X | 3500 | 410mm | 2.10 |
| GW-4073-X | 4000 | 450mm | 2.30 |
| GW-4074-X | 4500 | 515mm | 2.60 |
| GW-4075-X | 5000 | 550mm | 2.90 |



Elements supplied in "U", "W" or Triple "U" Form.
Straight lengths specially manufactured on request.



Minimum recommended air velocity – 1 meter per second.
Maximum sheath temperature 400 °C at 20 °C ambient temperature.
Maximum operating temperature 100 °C in air

CONSTRUCTION

Continuous spiral stainless steel 304 fin on 11.1mm diameter stainless steel element.
Diameter over fin 31.7mm. Fin pitch 5.0mm.

FINISH

Annealed 304 stainless Steel.

MOUNTING

Stainless Steel 304 mounting bushes 3/8" BSP tig welded to element sheath.

All elements are designed and manufactured to comply with the requirements of AS1668.1 and AS3102

ISTRA ELEMENTS & ENGINEERING

Ph 0295252935 Fax 0295401967 Email istra@tpg.com.au

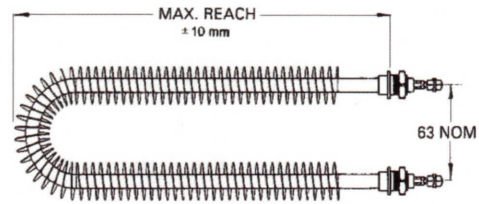


STAINLESS STEEL FINNED AIR HEATERS

WATTS DENSITY 60kW/m² SERIES

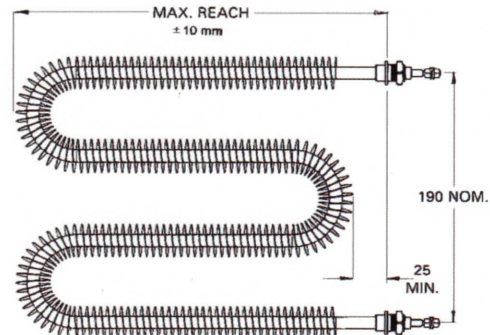
"U" FORM

| Part No. | Watts | Max. Reach | Weight Kg |
|-----------|-------|------------|-----------|
| GW-4471-U | 750 | 228mm | 0.40 |
| GW-4472-U | 1000 | 283mm | 0.50 |
| GW-4473-U | 1250 | 348mm | 0.60 |
| GW-4474-U | 1500 | 408mm | 0.70 |
| GW-4475-U | 1750 | 460mm | 0.80 |
| GW-4476-U | 2000 | 528mm | 1.00 |
| GW-4477-U | 2500 | 639mm | 1.20 |
| GW-4478-U | 3000 | 748mm | 1.40 |
| GW-4479-U | 3500 | 860mm | 1.50 |
| GW-4480-U | 4000 | 975mm | 1.80 |
| GW-4481-U | 4500 | 1110mm | 2.10 |
| GW-4482-U | 5000 | 1237mm | 2.30 |
| GW-4483-U | 6000 | 1455mm | 2.60 |



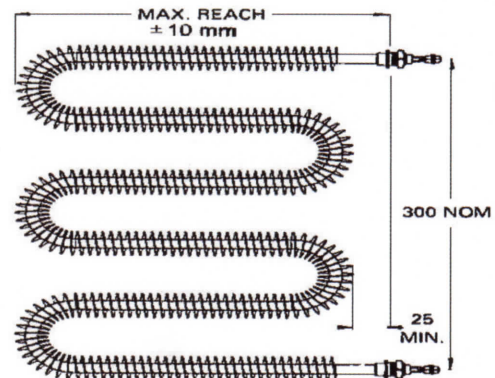
"W" FORM

| Part No. | Watts | Max. Reach | Weight Kg |
|-----------|-------|------------|-----------|
| GW-4472-W | 1000 | 154mm | 0.50 |
| GW-4473-W | 1250 | 184mm | 0.60 |
| GW-4474-W | 1500 | 218mm | 0.70 |
| GW-4475-W | 1750 | 240mm | 0.80 |
| GW-4476-W | 2000 | 278mm | 1.00 |
| GW-4477-W | 2500 | 334mm | 1.20 |
| GW-4478-W | 3000 | 384mm | 1.40 |
| GW-4479-W | 3500 | 439mm | 1.50 |
| GW-4480-W | 4000 | 500mm | 1.80 |
| GW-4481-W | 4500 | 569mm | 2.10 |
| GW-4482-W | 5000 | 632mm | 2.30 |
| GW-4483-W | 6000 | 738mm | 2.60 |

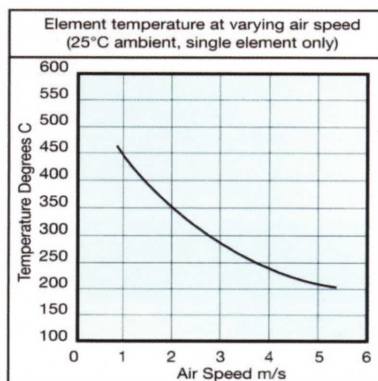


TRIPLE "U" FORM

| Part No. | Watts | Max. Reach | Weight Kg |
|-----------|-------|------------|-----------|
| GW-4476-X | 2000 | 198mm | 1.00 |
| GW-4477-X | 2500 | 237mm | 1.20 |
| GW-4478-X | 3000 | 273mm | 1.40 |
| GW-4479-X | 3500 | 311mm | 1.50 |
| GW-4480-X | 4000 | 349mm | 1.80 |
| GW-4481-X | 4500 | 394mm | 2.10 |
| GW-4482-X | 5000 | 436mm | 2.30 |
| GW-4483-X | 6000 | 509mm | 2.60 |



Elements supplied in "U", "W" or Triple "U" Form.
Straight lengths specially manufactured on request.



All elements are designed and manufactured to comply with the requirements of AS1668.1 and AS3102.

Minimum recommended air velocity – 1 meter per second.
Maximum sheath temperature 400 °C at 20 °C ambient temperature.
Maximum operating temperature 100 °C in air

CONSTRUCTION

Continuous spiral stainless steel 304 fin on 11.1mm diameter stainless steel element.
Diameter over fin 31.7mm. Fin pitch 5.0mm.

FINISH

Annealed 304 stainless Steel.

MOUNTING

Stainless Steel 304 mounting bushes 3/8" BSP tig welded to element sheath.

ISTRA ELEMENTS & ENGINEERING

Ph 02 95252935 Fax 0295401967 Email istra@tpg.com.au



DUCT HEATERS

Istra Elements manufacture custom built duct heater banks to meet the requirements of individual air conditioning installations.

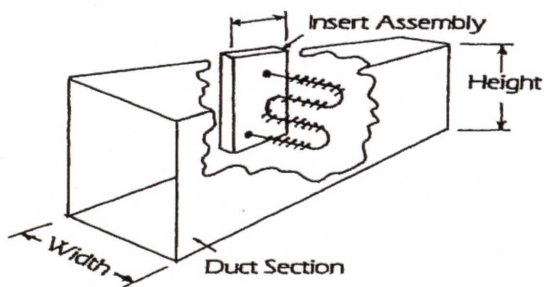
Once we are provided with full details of the job, an economic arrangement of finned elements, controls, etc will be selected to comply with those requirements. Our quotation will then be forwarded to the customer for verification and approval.

Our duct assemblies are designed to be inserted in a rectangular hole cut in the side or bottom of an air duct. Element supports are used when required to ensure the units withstand sagging and vibration.

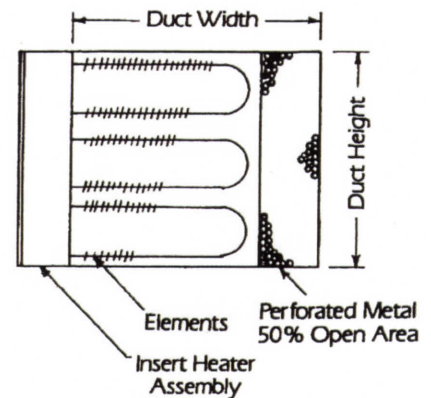
We recommend for all duct heating a minimum air velocity of 1m per second.

Job Data Required for quoting heater banks.

1. Nominate the element series to be fitted
2. Size of duct and entry side the heater bank to be fitted.
3. Total Kilowatts required
4. Number of control steps needed and whether wiring single or three phase
5. If you require the elements pre wired to a terminal block.
6. If thermal insulation (6mm kao board) is to be fitted to the duct face of the terminal boxes.
7. Details of controls required to be fitted to the heater banks or supplied separately.



In installations where the duct size exceeds the heater element by an excessive amount, the area past the heater should be filled with perforated metal of 50% open area. This action will maintain a uniform velocity of air across the face of the duct.

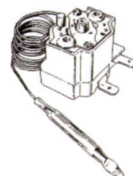


Controls.

Manual Reset: Fixed set point 125°C
LM7-P. Capillary length 620mm x 2mm Diameter.
Rating: 16.1 amp



Manual Reset: Adjustable 60°C - 150°C
7286. Capillary length 525mm, sensing bulb 66mm x 6mm Diameter
Rating: 20amp 240Volt.



Air Pressure switches can be fitted on request.

istra elements & engineering
71 Cawarra Road, Caringbah
NSW 2229 Australia.
ph 02 9525 2935
fax 02 9540 1967
email istra@tpg.com.au

