

SIMPLY THE BEST  
SOLUTIONS

HVAC  
SYSTEMS

# TETA & TEDA

Unit Heaters



CE TSEK

**TEKNOGEN®**

# Content

---

|                                    |   |
|------------------------------------|---|
| General Features .....             | 3 |
| Technical Specifications .....     | 3 |
| Components .....                   | 4 |
| Mounting & Maintenance .....       | 5 |
| Electrical Connection Diagram..... | 5 |
| Dimensions .....                   | 6 |



# Teknogen

---

As one of the leading manufacturers of Heating, Ventilation and Air Conditioning market, **TEKNOGEN HVAC** stands for innovation, top quality, leading technology and reliable service. That's why our motto is **"SIMPLY THE BEST SOLUTIONS"**.

One of the core issues for production is quality and high-end components for reaching top quality units. All internal processes are being regulated by **ISO9001** quality management system.

We combine the demands from the market with the new trends for energy savings and environmental needs. This combination leads us to create new designs with innovated ideas. This approach makes us have loyal customers worldwide.

**TEKNOGEN** has a large range for Air handling Units, Fancoils, Heat Recovery Ventilators, Swimming Pool Air Handling Units, Chillers, Rooftop Units, Floor Convectors, Unit Heaters. Our headquarters located in Istanbul and the factory is in Izmir.

If you are looking for high quality production and a solution partner, we Teknogen ready.

# General Features

TEKNOGEN Axial type (TETA) and Radial type (TEDA) unit heaters are being produced in 16 different models with heating capacities between 4000kcal/h and 40000kcal/h. Whereas Axial type fans are being used in TETA units, plug fans with high efficiency are being used in TEDA units to achieve better air flow and optimum air spread. The heating coils, which are made of copper pipe and aluminium wings, have high efficiency level and low pressure drop.

TETA and TEDA units, are produced with shutters. Shutter wings can be adjustable according to required air direction.

## Technical Specifications

| Model | Air volume        | Heating performance (90/70°C) |                     | Waterside Pressure Drop | Connection diameter |    | Electrical Power | Current |
|-------|-------------------|-------------------------------|---------------------|-------------------------|---------------------|----|------------------|---------|
|       |                   | Capacity                      | Blowing Temperature |                         | inch                | mm |                  |         |
|       | m <sup>3</sup> /h | kcal/h                        | °C                  | kPa                     | inch                | mm | W                | A       |

### TETA UNIT HEATERS WITH AXIAL FAN

|      |    |      |       |      |      |     |      |     |     |
|------|----|------|-------|------|------|-----|------|-----|-----|
| TETA | 4  | 900  | 4190  | 34   | 3    | 1/2 | 21,3 | 100 | 0,4 |
|      | 6  | 1060 | 5784  | 36.5 | 5.34 | 1/2 | 21,3 | 100 | 0,4 |
|      | 8  | 1400 | 9129  | 40.5 | 21.5 | 1/2 | 21,3 | 100 | 0,4 |
|      | 10 | 1600 | 11070 | 41.5 | 31.8 | 1/2 | 21,3 | 130 | 0,5 |
|      | 12 | 1725 | 12760 | 45.5 | 37   | 1/2 | 21,3 | 130 | 0,5 |
|      | 16 | 1800 | 17620 | 49.5 | 32.4 | 1/2 | 21,3 | 130 | 0,5 |
|      | 20 | 1900 | 20551 | 55   | 66.8 | 1/2 | 21,3 | 130 | 0,5 |
|      | 24 | 2450 | 25778 | 54   | 30.6 | 1/2 | 21,3 | 170 | 0,7 |

### TEDA UNIT HEATERS WITH RADIAL FAN

|      |    |      |       |    |       |     |      |       |       |
|------|----|------|-------|----|-------|-----|------|-------|-------|
| TEDA | 6  | 1350 | 7020  | 36 | 8,11  | 1/2 | 21,3 | 198,7 | 0,869 |
|      | 10 | 1550 | 10243 | 41 | 16,85 | 1/2 | 21,3 | 209,8 | 0,93  |
|      | 12 | 1750 | 14307 | 46 | 30,46 | 1/2 | 21,3 | 261,8 | 1,18  |
|      | 16 | 2500 | 16900 | 39 | 13,42 | 1/2 | 21,3 | 224,7 | 1,05  |
|      | 20 | 2800 | 20197 | 43 | 17,61 | 1/2 | 21,3 | 367,7 | 1,75  |
|      | 24 | 3300 | 24093 | 43 | 25,32 | 3/4 | 26,9 | 485,3 | 2,44  |
|      | 32 | 3500 | 33787 | 51 | 32,7  | 3/4 | 26,9 | 477,9 | 2,41  |
|      | 40 | 3800 | 43126 | 57 | 39,27 | 3/4 | 26,9 | 717,4 | 3,12  |

\* Sound level has been measured 4m away from the unit.

# Components

## Body

The casing of the unit consists of high resistant steel. Both surface of the sheet metals are painted in RAL 9002. The service cover provides an easy service to all components.

## Fans

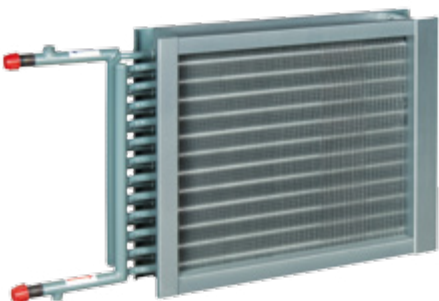
Axial type fans are being used in TETA units. Teda units have back curved high efficient fans from Ebm-Papst .

The statically and dynamically balanced fans operate with low vibration and low noise levels.



## Coil

Heating Coils made up of copper pipes and aluminium wings are used in TETA and units. Coils have high efficiency and low pressure drop while their performance are certified by Eurovent.



## Anemostate

Adjustable type anemostates are being used on TETA and TEDA units for better air flow and optimum air spread.



## Filter [OPTIONAL]

- G4 class according to EN779.
- Cleanable
- Perfect dust keeping capacity
- Usage of corrugated and non-flammable fabric to reduce pressure drop
- Non-woven ,dry and wide surfaces for a low pressure drop.



# Mounting and Maintenance

---

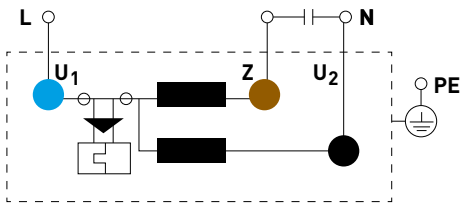
TETA and TEDA units are being designed in accordance with pipe couplings which assure easy assembling for unit heater coils. Pipe coupling connection is done over the unit and it has air purges to drain air reducing system efficiency.

The service cover on the units provides the easy service and maintenance of the fans of TETA and TEDA units. The electrical connection of the units have been simplified and connections have been ensured through IP 54 protection class electrical boards.

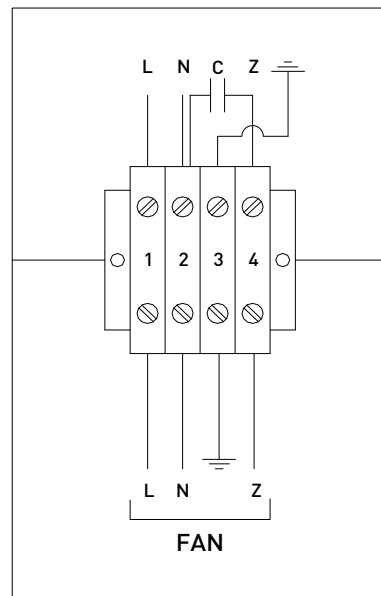
## Electrical Connection Diagram

---

### Single phase AC motor with capacitor

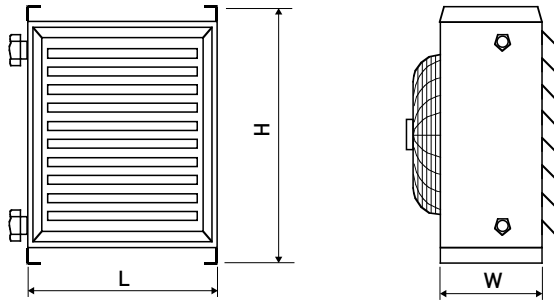


### TEDA and TETA Electric Connection Diagram

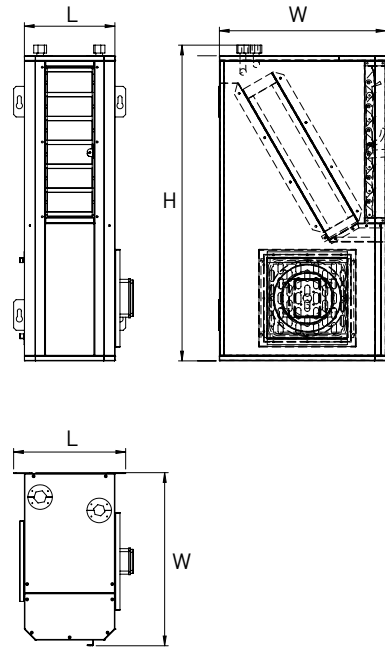


# Dimensions

## TETA AXIAL UNIT HEATER

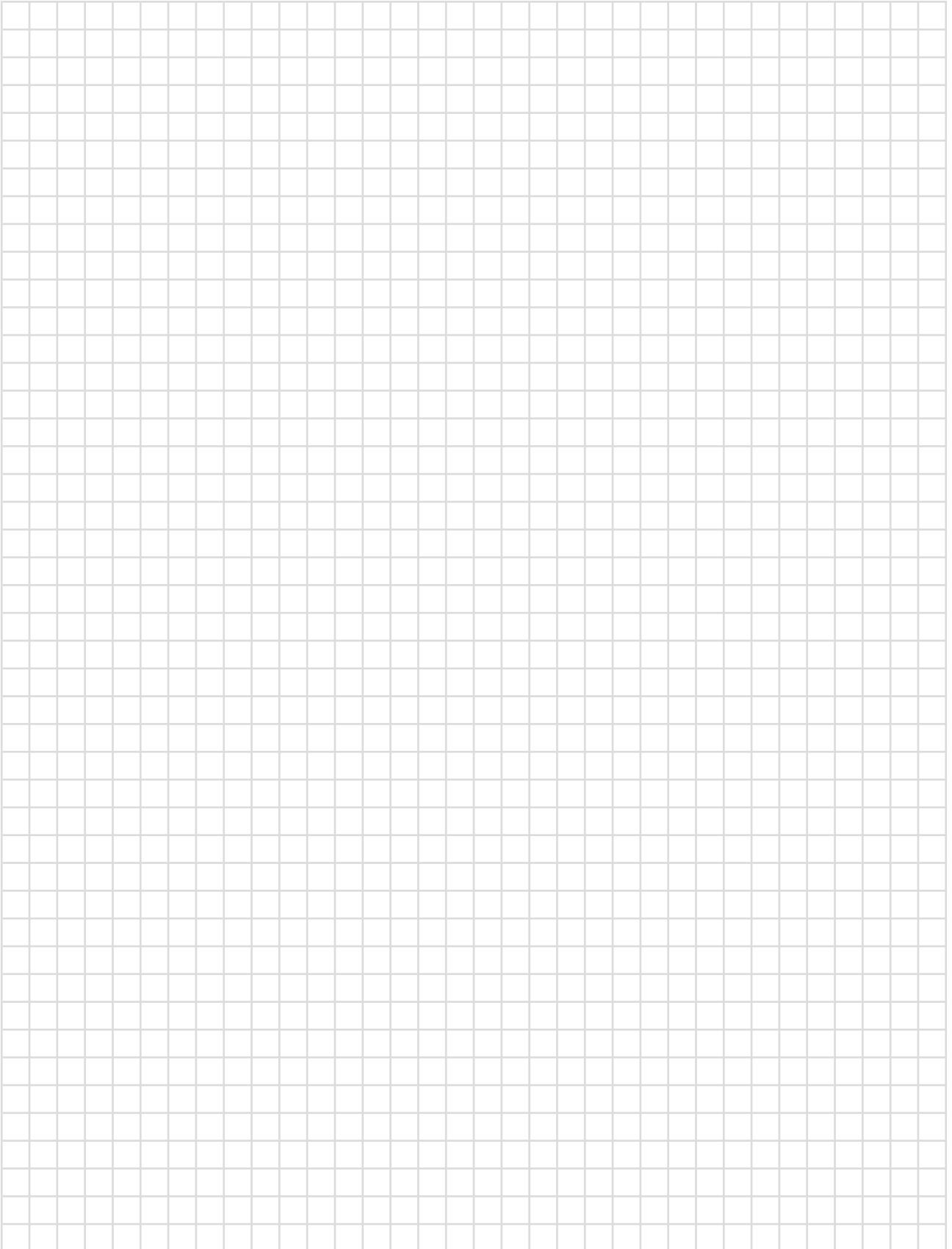


## TEDA RADIAL UNIT HEATER



| Model |    | Dimenisons |     |     | Weight |
|-------|----|------------|-----|-----|--------|
|       |    | mm         |     |     |        |
|       |    | W          | L   | H   | kg     |
| TETA  | 4  | 290        | 410 | 500 | 15     |
|       | 6  | 290        | 410 | 500 | 17     |
|       | 8  | 290        | 410 | 500 | 20     |
|       | 10 | 290        | 410 | 500 | 22     |
|       | 12 | 290        | 410 | 500 | 24     |
|       | 16 | 290        | 450 | 600 | 29     |
|       | 20 | 290        | 485 | 600 | 30     |
|       | 24 | 290        | 485 | 650 | 32     |

| Model |    | Dimenisons |     |      | Weight |
|-------|----|------------|-----|------|--------|
|       |    | mm         |     |      |        |
|       |    | W          | L   | H    | kg     |
| TEDA  | 6  | 476        | 230 | 940  | 31     |
|       | 10 | 502        | 230 | 1115 | 31     |
|       | 12 | 502        | 230 | 1115 | 31     |
|       | 16 | 552        | 331 | 1200 | 41     |
|       | 20 | 552        | 331 | 1200 | 41     |
|       | 24 | 580        | 331 | 1250 | 44     |
|       | 32 | 580        | 382 | 1250 | 46     |
|       | 40 | 612        | 382 | 1262 | 46     |



SIMPLY THE BEST  
SOLUTIONS

HVAC  
SYSTEMS

APRIL 2016  
BY HVAC SYSTEMS INC.  
RESERVES THE RIGHT TO MAKE ALTERATIONS  
DUE TO TECHNICAL DEVELOPMENTS WITHOUT PRIOR NOTICE.



**TEKNOGEN®**

**HEADQUARTERS**

BY ISITMA SOGUTMA KLIMA HAVALANDIRMA SAN TIC. A.S.  
ATATURK MAH. DUDULLU CAD. SEREF SOKAK. NO 46 34758 ATASEHIR - ISTANBUL / TURKEY  
TEL + 90 216 324 51 59 • FAX + 90 216 324 99 32  
info@TEKNOGENHVAC.COM • WWW.TEKNOGENHVAC.COM

**FACTORY**

KAZIM KARABEKIR MAHALLESİ BEKİR SAYDAM CAD.  
NO:104 IS KAPI NO: 25 PANCAR, AYRANCILAR, TORBALI - IZMIR / TURKEY  
TEL + 90 232 864 11 11 • FAX + 90 232 864 10 11