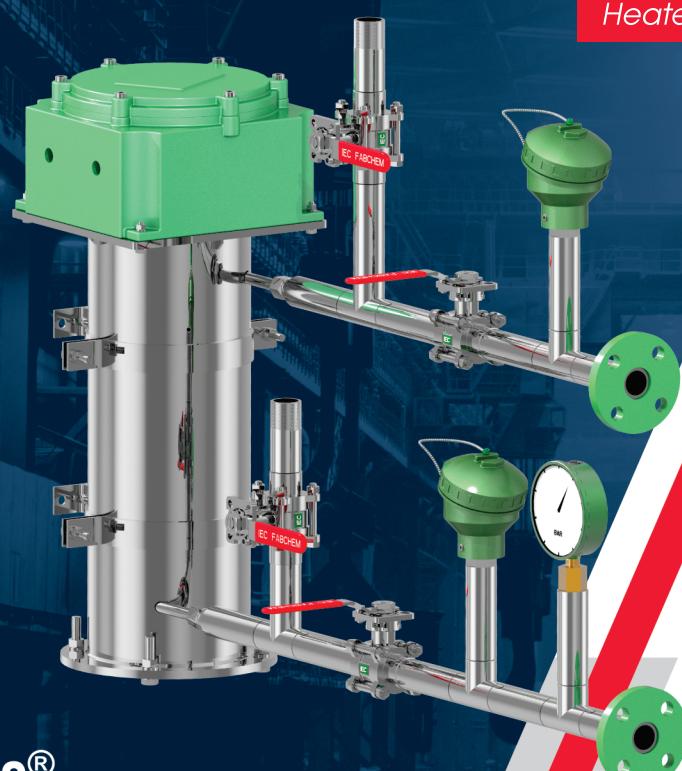


**DRY HEATERS®**



**DH®**  
Heaters

**DRY HEATERS®**  

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**INDIRECT HEATERS**

# DRYHEATERS®

Electrical non-contact process heaters

The DRY HEATER® uses electric heating to heat or vaporize the fluids through an isolated flow-path. In this design the fluid never contacts the electrical heating element which brings three key benefits to your application.

## High purity

Electrical heating elements are notorious for leaching chemicals into the process which contaminates the process fluid rendering it useless. In the DRYHEATER® the process fluid is isolated in a separate tube away from the heating elements making contamination impossible. Therefore the DRYHEATER® is the chosen heater for food and pharma applications.

## High Pressure

The isolated flow channels for the process fluids are rated for 150 Bar pressure which makes the DRYHEATER® the preferred choice for heating cryogenics and high pressure gases.

## Intrinsically explosion & fire proof

As the process fluid never touches the electrical heating elements, the risk of flame or explosion is radically minimized. The DRYHEATER® is therefore the preferred choice for heating Petroleum products and gases.

EFFICIENT  
GAS,LIQUID  
**HEATER**



## Conventional Heaters Vs Dryheaters

*IEC'S Dry Heaters differs from conventional heaters in a few ways which prove to be highly advantageous.*

### No direct contact

*The heating element does not come into direct contact with the process fluid. This feature eliminates the risk of contamination of the process fluid with compounds from the heating element.*

### Solid state heat transfer medium

*There is no liquid-based heat transfer medium such as a water bath or thermic oil baths. The heat transfer medium is solid aluminium or bronze.*

### High velocity

*Unlike normal process heaters the fluid medium can travel at a high velocity inside the heater which increases the heat transfer rate.*

### Features Of Dry Heaters

- Stainless Steel and various MOC flow path tubes according to the specific process application.
- All models are suitable to replace the heaters instantly
- Ability to heat liquids and gases as well.
- Ability to safely heat flammable media.
- Isolated in flow path tube that never contacts the heating elements.
- Suitable for high pressure applications.
- High heat transfer rates.



## CUSTOMIZE

To specific process application



**DRY HEATERS®**

## Industrial Applications

-  Oil & Gas
-  Steam Boiler
-  Acid Heating
-  Vaporizer
-  LPG Vaporizer
-  Acid heating
-  Air Heaters
-  Mobile Gas Heating Units
-  Preheating Of Natural Gas
-  Pasteurization Inline Heating
-  High Purity Gas Heaters
-  Cryogenic Gas Heaters
-  Bio-pharmaceutical Processing & Manufacturing Heaters



**DRY HEATERS®**

**Robust**  
*| Construction.*

## Benefits & Advantages

- High heat transfer area
- Excellent heat transfer capabilities.
- Reliable design – Operational safety
- Less susceptible to freeze-up and liquid entrainment.
- Lower footprint
- Robust construction.

## Safety Features

- Integrated temperature control system.
- Integrated pressure and flow control system.
- Fire proof system.



## Variants

MODEL	POWER RANGE	END CONNECTION	FLOW PATH	MAX PRESSURE	ENCLOSURE
<b>DRY HEATER - 1.5</b>	0.5 - 1.5 KW	½" NPT (M)	Single strat	270 BAR (G)	FIRE PROOF
<b>DRY HEATER - 3.5</b>	2.5 - 3.5 KW	½" NPT (M)	Single strat	250 BAR (G)	FIRE PROOF
<b>DRY HEATER - 10.5</b>	9 - 11 kW	1" NPT (M)	Single strat	250 BAR (G)	FIRE PROOF
<b>DRY HEATER - 20</b>	20 - 23 KW	1" NPT (M)	Double strat	210 BAR (G)	FIRE PROOF
<b>DRY HEATER - 45</b>	42 - 46 KW	1" NPT (M)	Double strat	180 BAR (G)	FIRE PROOF

**\*Note**

The table below shows data for standard DH models and components. Custom tube materials, finishes and configurations are also available.



**INTEGRATED**  
**Temperature - Pressure - Flow**  
**CONTROLLERS**



**DRY HEATERS®**  
INDIRECT HEATERS



## DRY HEATER - 1.5



**FLOW PATH** : Single strat



**MAX PRESSURE** : 270 BAR (G)



**DIMENSION (D x H)** : 100 X 310 mm



**POWER** : 0.5 - 1.5 kW

**DRY HEATERS®**



## DRY HEATER - 3



**FLOW PATH** : Single strat



**MAX PRESSURE** : 250 BAR (G)



**DIMENSION (D x H)** : 140 X 450 mm



**POWER** : 2.5 - 3.5 kW

**DRY HEATERS®**



**DRY HEATERS®**

**INDIRECT HEATERS**



[dryheater.in](http://dryheater.in)



## DRY HEATER - 10.5



### FLOW PATH

: Single strat



### MAX PRESSURE

: 250 BAR (G)



### DIMENSION (D x H)

: 175 X 630 mm



### POWER

: 09 - 11 kW

## DRY HEATERS®

“

The Dryheater comes with an integrated thermocouple as a standard which regulates the temperature of the heat transfer medium of aluminium/bronze. ”

## DRY HEATER - 20



### FLOW PATH

: Double strat



### MAX PRESSURE

: 250 BAR (G)



### DIMENSION (D x H)

: 255 X 950 mm



### POWER

: 20 - 23 kW

“

The DRYHEATER is a heating equipment which transfer heat via electric heaters to a circulating process gas or liquid. It differs from conventional heaters in a few ways which prove to be highly advantageous. ”

## DRY HEATERS®



[dryheater.in](http://dryheater.in)

**06**



## DRY HEATER - 45



### FLOW PATH

: Double strat



### MAX PRESSURE

: 180 BAR (G)



**DIMENSION (D x H)** : 320 X 1100 mm



### POWER

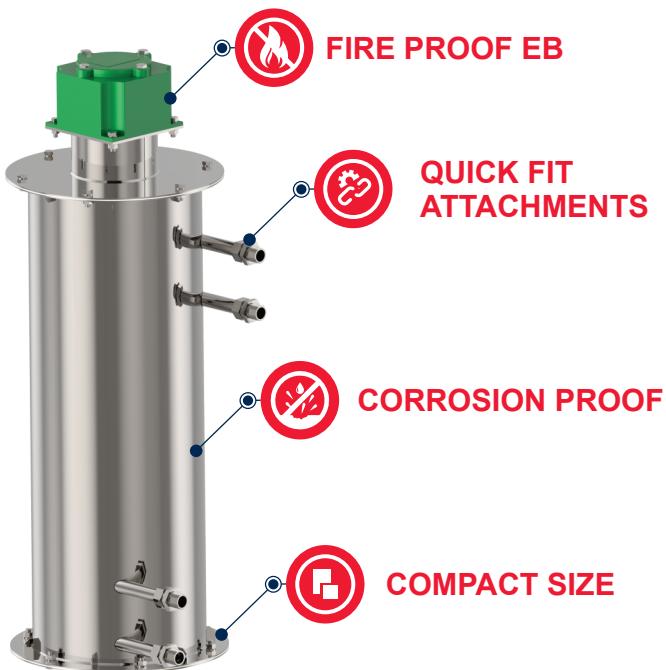
: 42 - 46 kW

## DRY HEATERS®

“

The heating element does not come into direct contact with the process fluid. This feature eliminates the risk of contamination of the process fluid with compounds from the heating element. ”

## Features



**DRY HEATERS®**

Reliable Non - Contact Heaters



**DURABLE  
BUILD**

**INDUSTRIAL  
GRADE**



Replaceable



Quick service



24/7 Support



[dryheater.in](http://dryheater.in)



A Segment Leading Tech & Product



I **DRYHEATERS**  
**HIGH PURITY**  
I **PROCESS HEATERS**



**DRYHEATERS®**  
Reliable Non - Contact Heaters



**IEC FABCHEM LIMITED**  
ENGINEERING EXCELLENCE SINCE 1963



[dryheater.in](http://dryheater.in)



[marketing@iecfabchem.in](mailto:marketing@iecfabchem.in)



K-32b, Sipcot Industrial Complex,  
Gummudipoondi, Tamil Nadu, India.  
Pin: 601 201,