TECHWIN®
INTERNATIONAL
Since 2003

Tubing Bundle Solutions

DESIGN
SUPPLY
TUBING BUNDLE
ENCLOSURES
INSTALLATION
SUPPORTS

TECHWIN® INTERNATIONAL

HEATED SAMPLE LINES

FOR CEMS AND PROCESS ANALYSIS APPLICATION

TRACELINE

Application

Transporting the sample gas and liquid is not an easy task. The safest way of transporting it is through heated sampling lines. With an efficient network the sample can easily be transported from the area of sampling point to the analysis point at maintained required temperature.

The sampling line is being the key issue of the sample handling system. The transfer line must make it possible to transport the gas sample or liquid sample without changing its core property or representativeness. In case of a risk of condensation ,adsorption, contamination or reduction in viscosity the sample property changes leading to inaccuracy in the reading of the system.

The goal is to supply the sample as efficiently as possible by keeping the temperature of the sample above the dew point or the reaction temperature. We are here to provide you the best solution for the above problems. To know more about it please get in touch with our representatives.

Technology

Up to 12 PTFE, PFA, stainless steel or special alloy tubes as internal line with Parallel or series heating cable as a heat source. This assembly is insulated with glass fiber or thermal fleece insulation with thick-walled extruded flame retardant and UV resistant PVC, TPE or TPU outer jacket.

Functions

- Operation with external temperature controller through RTD PT100
- Constant wattage heating cable / Self regulating heating cable
- Max. 200°C control temperature
- Up to 300m at a stretch in a single drum
- Robust design with thick-walled UV resistant PVC, TPE, PE or TPU outer jacket with more alternatives available
- Internal tube made of PTFE, PFA, stainless steel or special alloy
- Up to 12 internal lines as option

Technical Specifcation

EHTL	01	PTFE	01	CWC	01	FG	PVC
1	2	3	4	5	6	7	8

1) Type of bundle :
- EHTL – Electrical heat traced line, or
- SHTL- Steam heat trace line, or
- PIT - Pre Insulated Tubing

2) No of process tubes :
- 01 – Single, or
- 02 – Two, more option available

3) Tube material :
- PTFE- Poly Tetra Fluoro Ethylene, or
- SSS – Stainless Steel Seamless, or
- SSW – Stainless Steel Welded, more option available

4) Tube Size (OD) :
- 01 - 1/8"
- 02 - 1/4"
- 03 - 3/8"
- 04 - 1/2"
- 05 - 3/4"

5) Heating cable :
- CWC – Constant Wattage Cable, or
- SRLT – Self-Regulating Low Temperature, or
- SRMT – Self-Regulating Medium Temperature, or
- SRHT - Self Regulating High Temperature

6) Power output:
- 01 - 16 W/m, or
- 02 - 25 W/m, or
- 03 - 33 W/m, or
- 04 - 45 W/m, or
- 05 - 60W/m, or
- 06 - 66 W/m

7) Insulation Material :
- FG- Fiber Glass, or
- TF-Thermal Fleece, or
- SF- Silicon Foam

8) Outer Jacket :
- PVC-Extruded PVC, or
- TPU-Extruded TPU , or
- PA - PA corrugated , or
- TPE-Extruded TPE

Description	Data
Maximum Operating Temperature	250°C or more
Process Tube Size	1/4" to 3/4" Metric sizes are also available
Insulation Material	Fiber Glass (refer point 7 in model selection)
Insulation Thickness	10mm - or more (as per design)
Outer Jacket	2mm - 4mm UV resistant FRLS PVC/ TPU/ TPE
Heating cable	Constant wattage / Self Regulating
Voltage	110V - 240V
Maximum Circuit Length	As per heating cable selection
Power Output	16 W/m - 66 W/m and more options available

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