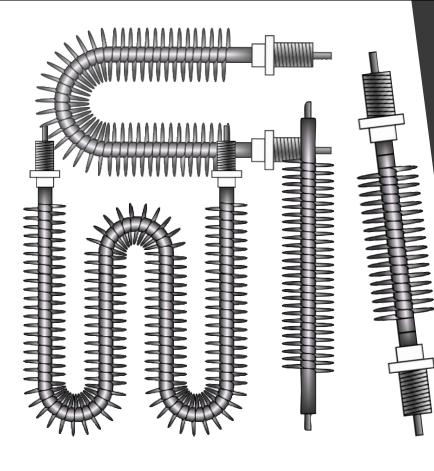
# **FINNED TUBULAR HEATERS**



### FEATURES

» Optional features of finned tubular heaters include rustproof coating, stainless steel fins and sheath material, nickel plating, special mounting accessories, various shapes, and mounting attachments

» Standard mounting attachments for finned tubular heaters are threaded fittings, which can be brazed or crimped onto the heaters

» Special mounting brackets with unique designs are available for special applications

### **APPLICATIONS**

Recirculating ovens Fan-forced Heating Heat Treating Annealing Drying

#### INFORMATION

- In applications with forced convection, finned tubular heaters have increased surface area and improved heat transfer
- Compared to regular tubular heaters, finned tubular heaters run at lower surface temperatures for the same watt densities when placed in the same air streams
- Finned tubular heaters are not recommended for applications with outlet air temperatures above 600°F
- The sheath material and watt density of a finned tubular heater affect its durability
- Standard finned tubular heaters are made of steel sheath and steel fins (max. surface temperature 750°F), and have a plain surface finish
- For corrosive environments or high temperature applications above 750°F, finned tubular heaters can be made with stainless steel sheath and stainless steel fins
- Safe watt densities that keep surface temperatures within limits depend on the speed of incoming air and its outlet temperature
- MPI Morheat is a trusted Canadian manufacturer of finned tubular heaters

toll-free(800)817-3486

# MAR ALUMINED ALUMINED BAND HEATERS

**INGTH** 

28.5

40.5

53.5

65.5

78.5

90.5

103.5

13

20

26

32

38

44

0,430"DIAM – WIDTH = 3 1/8"

LENGTH

14.5

21.5

27.5

33.5

39.5

45.5

52.5

TER W F

MŔ

TUB-S

TUB-SI

TUB-SP

TUB-SF

TUB-SF

TUB-SF4

TUB-SF43

WIDTH = 3 1/8"

**MPI P/N** 

TUB-UN43013

TUB-UN43020

TUB-UN43026

TUB-UN43032

TUB-UN43038

TUB-UN43044

**MPI P/N** 

TUB-UF43014.5

TUB-UF43021.5

NB-UF43027.5

TUB-UF43033.5

**Y08**-UF43039.5 TUB-UF43045.5

Yes-UF43052.5

5cooling Only Op-1

toin

Le

0.430″ 🛙

1111

3000W

4000W

5000W

6000W

7000w

8000w

2000W

4000W

5000W

6000W

7000w

**WATTS** 2000W

3000W

2000W

5000W

**6**000W

7000w

**5**000w

Minimum Diame

ter

0.430"DIAM

#### STRAIGHT ELEMENTS

-\'GT

52

64

89

102

MAX VOLTAGE:

UNSALXPA MESEMENTS

MAX DIAMETER

Starflex Heater

MAX WATT DENSITY

WATTACEMOUERAN

......

600 SHPECIFICATIONS SN43077

WA

200

3000Vv

4000W

5000W

7000w

8000w

Width

SOM

6

TUB-SN43052

TUB-SN43064

TUB-SN43089

TUB-SN430102

MAX OPERATING TEMPERATURE

### **APPLICATIONS**

MPI Morheat Starflex band heaters are designed for use in barrel heating of extrusion and injection molding machinery, blown film dies and other cylindrical surfaces. Their configuration can be full for 360° coverage or any degree of partial warp. Internal bands to heat from the 5000W inside-out are also available.

Some applications require both heating and cooling. With the advent of exothermic materials and heat generated by screw rotation, the proven MPI Morheat Starflex band heater was adapted to provide both heating and cooling functions. Cooling tubes are placed in proximity to the heating elements to produce the MPI Morheat Starflex Heat/ Cool band. Due to its low mass, it can be

4 TUB-SN31594

 277 Volts /Half

 30 Amps

 40 Watts / in^2

 0.315"DIAM - WDIHE 3/8

 10 ft

 WATTS LENGTH MP650°F

 1000W
 9
 TUB-UN3159

 2000W
 16
 +5%,1510%

 3000W
 24
 TUB-UN31524

 4000W
 31
 TUB-UN31531

 5000W
 39
 TUB-UN31539

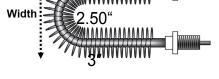
 6000W
 46
 TUB-UN31546

## eat/Cool Option Optional TC Hole

Size

0.315"DIAM – WIDTH = 3 3/8" No							
WATTS	LENGTH	MPLP/N					
1000W	10.5	TUB-UF31510.5					
2000W	17.5	TUB-UF31517.5					
300 <b>0</b> 0	25.5	TUB-0F31525.5					
4000W	32.5	TUB-UF31532.5					
500 <b>09\$</b>	40.5	TUB- <b>50</b> 31540.5					
6000W	47.5	TUB-UF31547.5					
Yes		.50″					

Width	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
.75″	
Lengt	h ₩
Lengt	h►



4″

MORHEAT Inc.

MPI

p(416)675-7329

# MEMPINED TAPU AND HEATERS

#### W-SHAPED ELEMENTS

#### **APPLICATIONS**

-					LIVAI	<b>S</b> ITS
	_JW _J000W 4000W 5000W 6000W 7000w 8000w	IAM- WI	sigr MPI Pinjeo TUB-WN430 o TUB-WN430 o	hed for use in the cylindrical for use in the cylindrical an be full for 36 partial warp. In 4000W Some applical cooling. With terials and tion, the provement of the cool for	barrel hea nachinery Il surfaces 50° covers nternal ba _inside-o tions_requ the adve heat gene en MPI M dapted to	band heaters are de- ting of extrusion and boom film dies and s. Their configuration age or any degree of ands to heat from the ut are also available. uire both heating and nt of exothermic ma- erated by screw rota- orheat Starflex band provide both heating as. Cooling tubes are
Ev. gul	WATTS	LENGTH	MPI P/N	placed in pro	ximity to t	the heating elements
	2000W	8.5	TUB-WF4308.			orheat Starflex Heat/
	3000W	11.5	TUB-WF43011	J I IUUUVV	1.0	s low mass, it can be
Width:	4000W	15.5	TUB-WF43015	.0 200011	14.5	TUB-WF31514.5
	5000W	18.5	TUB-WF43013		14.5	TUB-WF31518.5
MAXMOLTAGE		21.5	TUB-WF43021		227	
	7000w	21.5	TUB-WF43024		25.5	7 Volts /Half
MAX AMPS:	8000w	24.5		.5	20.0	30 Amps
					40	Wette / in A2
MAX WATT DE	NSITY (RECO				40	Watts / in^2
MAX WATT DE MAX DIAMETE	NSITY (RECO				40	Watts / in^2 10 ft
MAX DIAMETE	NSITY (RECO R	COMEN	NDED):		40	10 ft
MAX DIAMETE MAX OPERATI	NSITY (RECO R NG TEMPER	COMEN	NDED):		40	
MAX DIAMETE	NSITY (RECO R NG TEMPER	COMEN	NDED):		40	10 ft
MAX DIAMETE MAX OPERATI WATTAGE TOL SOME TABLE	NSITY (RECO R NG TEMPER ERANCE:	COMEN	NDED): :			10 ft 650 °F +5%, -10%
MAX DIAMETE MAX OPERATI WATTAGE TOL	NSITY (RECO R NG TEMPER	COMEN	NDED):			10 ft 650 °F
MAX DIAMETE MAX OPERATION WATTAGE TOL SOME TABLE Starflex Heater Width .75"	NSITY (RECO R NG TEMPER ERANCE: Minimum Diam ter 3.50″	COMEN	NDED): : ling Only Op- toin Yes	Heat/Cool No		10 ft 650 °F +5%, -10% Optional TC Hole Size N/A
MAX DIAMETE MAX OPERATION WATTAGE TOL SOME TABLE Starflex Heater Width .75" 1.50"	NSITY (RECO R NG TEMPER ERANCE: Minimum Diam ter 3.50" 3.50"	COMEN	IING ONIY Op- toin Yes Yes	Heat/Cool No No		10 ft 650 °F +5%, -10% Optional TC Hole Size N/A .37"
MAX DIAMETE MAX OPERATION WATTAGE TOL	NSITY (RECO R NG TEMPER ERANCE: Minimum Diam ter 3.50" 3.50" 5	COMEN	IING ONIY Op- toin Yes Yes No	Heat/Cool No No No		10 ft 650 °F +5%, -10% Optional TC Hole Size N/A .37" .50"
MAX DIAMETE MAX OPERATION WATTAGE TOL SOME TABLE Starflex Heater Width .75" 1.50"	NSITY (RECO R NG TEMPER ERANCE: Minimum Diam ter 3.50" 3.50"	COMEN	IING ONIY Op- toin Yes Yes	Heat/Cool No No		10 ft 650 °F +5%, -10% Optional TC Hole Size N/A .37"