

ALUMINUM BAND HEATERS



Typical Heating Applications:

- *Plastic Extruders*
- *Injection Molding Machines*
- *Blow-Molding Machines*
- *Dies and Die-Heads*
- *Pipe and Cylinder Heating*

Bucan Aluminum Band Heaters are used in applications where rugged, long lasting heaters are needed. These heaters are highly efficient in transferring heat to the application surface, provide uniform heating, are contamination proof (apart from the terminals) and easy to install.

The heat source is a set of 0.315in tubular heating elements which are pressed into tight grooves made on the surface of the heater aluminum structure.

The heater assembly is clamped around a cylinder or pipe with low expansion stainless-steel straps that have special mounting brackets that use barrel-nuts, spring loaded ¼-20 socket cap screws that keep the heater tightly clamped to the cylinder even when thermal expansion occurs.

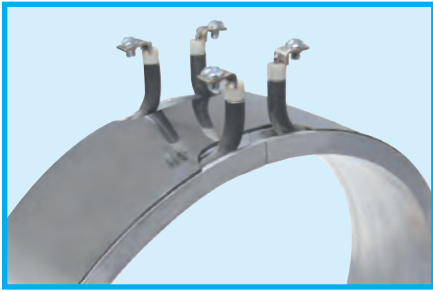
Bucan Aluminum Band Heaters can have different diameters but are available only in four standard widths 1.5", 2.5", 3" and 4". They can have different constructions, termination styles and can accommodate thermocouple holes.

Bucan Aluminum Band Heaters are also available with copper or stainless-steel liquid cooling tubes. This may restrict the thermal capacity by up to 25%.

Specifications	
Max Temperature	650°F
Max Voltage	300V/Section
Max Amps	30 Amps
Max Watt Density	40 W/in ² Element Sheath
Wattage Tolerance	+5%, -10%
Min ID For widths 1.5" & 2.5"	3.5"
Min ID For widths 3" & 4"	5"
Thickness	1/2"
Gap up to 11"	¼"
Gap above 11"	Depends on ID

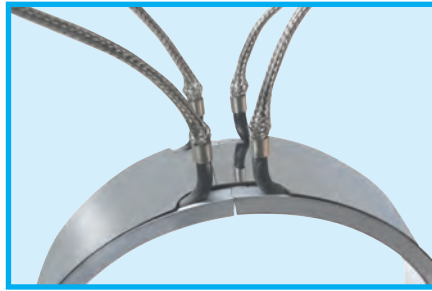
BUCAN ALUMINUM BAND HEATERS

Terminations



B Style

The standard termination for Aluminum Band Heaters is the terminal lug with a 10-32 binder head screw. Terminal jumpers are available for easy wiring installations.



E Style

Stainless-steel braids provide strength and protect leads from abrasion. However, leads should never be pulled or used as transportation handles.



H Style

Encasing cables in metallic flexible tubing is the ideal method to protect leads from abrasion and contamination. Sharp bending is not possible with this type of leads.



T Style

Teflon leads with Teflon heat shrink sleeves provide excellent protection against moisture and contamination. The temperature limitation for this type of leads is 500°F.



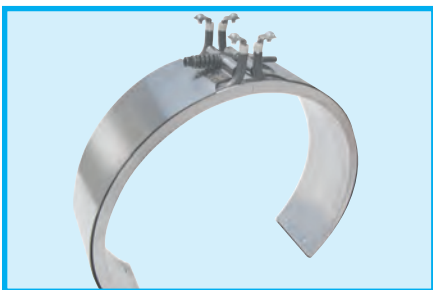
G1 Style

NEMA-1 enclosures provide protection against exposed electrical wiring and terminals. Enclosure dimensions can change with heater size.



G4 Style

Aluminum Band heaters can have NEMA-4 moisture and contamination proof enclosures which are brazed or welded to the tubular elements.



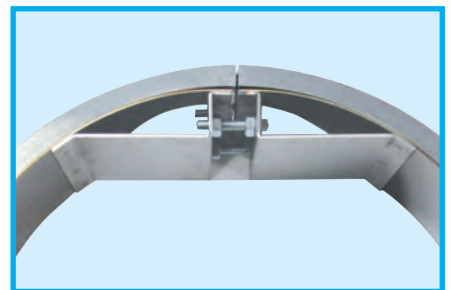
Partial

Partial Aluminum Band Heaters are recommended where obstruction or complicated holes prevent complete coverage on the surface of the barrel.



Insulated

To prevent energy loss, Aluminum Band Heaters can have separate insulating shrouds. These shrouds are custom-made as per heater specs.



Reverse

Reverse constructions are for applications that require internal heating. Electrical terminations and reverse clamping mechanisms are located on the inside of the heater.

BUCAN ALUMINUM BAND HEATERS

Tables of standard Bucan Aluminum Band Heaters

Width	Diameter	Voltage/Half	25 w/in ²	Bucan Part #	35 w/in ²	Bucan Part #
1.5	4	240 VAC	475	ABH1-040-2-0475	650	ABH1-040-2-0650
1.5	5	240 VAC	575	ABH1-050-2-0575	825	ABH1-050-2-0825
1.5	6	240 VAC	700	ABH1-060-2-0700	1000	ABH1-060-2-1000
1.5	7	240 VAC	825	ABH1-070-2-0825	1150	ABH1-070-2-1150
1.5	8	240 VAC	950	ABH1-080-2-0950	1325	ABH1-080-2-1325
1.5	9	240 VAC	1050	ABH1-090-2-1050	1500	ABH1-090-2-1500
1.5	10	240 VAC	1175	ABH1-100-2-1175	1650	ABH1-100-2-1650
1.5	11	240 VAC	1300	ABH1-110-2-1300	1800	ABH1-110-2-1800
1.5	12	240 VAC	1400	ABH1-120-2-1400	1975	ABH1-120-2-1975
1.5	13	240 VAC	1525	ABH1-130-2-1525	2150	ABH1-130-2-2150

Width	Diameter	Voltage/Half	25 w/in ²	Bucan Part #	35 w/in ²	Bucan Part #
2.5	4	240 VAC	775	ABH2-040-2-0775	1100	ABH2-040-2-1100
2.5	5	240 VAC	1000	ABH2-050-2-1000	1375	ABH2-050-2-1375
2.5	6	240 VAC	1175	ABH2-060-2-1175	1650	ABH2-060-2-1650
2.5	7	240 VAC	1375	ABH2-070-2-1375	1925	ABH2-070-2-1950
2.5	8	240 VAC	1575	ABH2-080-2-1575	2200	ABH2-080-2-2200
2.5	9	240 VAC	1750	ABH2-090-2-1750	2475	ABH2-090-2-2475
2.5	10	240 VAC	1950	ABH2-100-2-1950	2750	ABH2-100-2-2750
2.5	11	240 VAC	2150	ABH2-110-2-2150	3025	ABH2-110-2-3025
2.5	12	240 VAC	2350	ABH2-120-2-2350	3300	ABH2-120-2-3300
2.5	13	240 VAC	2550	ABH2-130-2-2550	3575	ABH2-130-2-3575

Width	Diameter	Voltage/Half	25 w/in ²	Bucan Part #	35 w/in ²	Bucan Part #
3	4	240 VAC	950	ABH3-040-2-0950	1325	ABH3-040-2-1325
3	5	240 VAC	1175	ABH3-050-2-1175	1650	ABH3-050-2-1650
3	6	240 VAC	1400	ABH3-060-2-1400	1975	ABH3-060-2-1975
3	7	240 VAC	1650	ABH3-070-2-1650	2300	ABH3-070-2-2300
3	8	240 VAC	1875	ABH3-080-2-1875	2625	ABH3-080-2-2625
3	9	240 VAC	2125	ABH3-090-2-2125	2950	ABH3-090-2-2950
3	10	240 VAC	2350	ABH3-100-2-2350	3300	ABH3-100-2-3300
3	11	240 VAC	2600	ABH3-110-2-2600	3625	ABH3-110-2-3625
3	12	240 VAC	2825	ABH3-120-2-2825	3950	ABH3-120-2-3950
3	13	240 VAC	3050	ABH3-130-2-3050	4300	ABH3-130-2-4300

Width	Diameter	Voltage/Half	25 w/in ²	Bucan Part #	35 w/in ²	Bucan Part #
4	5	240 VAC	1575	ABH4-050-2-1575	2200	ABH4-050-2-2200
4	6	240 VAC	1875	ABH4-060-2-1875	2650	ABH4-060-2-2650
4	7	240 VAC	2200	ABH4-070-2-2200	3075	ABH4-070-2-3075
4	8	240 VAC	2500	ABH4-080-2-2500	3500	ABH4-080-2-3500
4	9	240 VAC	2825	ABH4-090-2-2825	3950	ABH4-090-2-3950
4	10	240 VAC	3150	ABH4-100-2-3150	4400	ABH4-100-2-4400
4	11	240 VAC	3450	ABH4-110-2-3450	4825	ABH4-110-2-4825
4	12	240 VAC	3750	ABH4-120-2-3750	5275	ABH4-120-2-5275
4	13	240 VAC	4075	ABH4-130-2-4075	5725	ABH4-130-2-5725
4	14	240 VAC	4400	ABH4-140-2-4400	6150	ABH4-140-2-6150