



CVC PUMP HEATERS

CVP PUMP HEATERS

VARIAN/NRC PUMP HEATERS

TORR PUMP HEATERS

VEECO PUMP HEATERS

EDWARDS PUMP HEATERS

**MISCELLANEOUS VACUUM
DIFFUSION PUMP HEATERS**

PUMP HEATER ACCESSORIES

VACUUM DIFFUSION PUMP HEATERS

ISA VACUUM PRODUCTS distributes replacement heaters for 2" -48" Vacuum Diffusion Pumps. Many of the replacement heaters for CVC, Cooke, Varian and Torr Diffusion Pumps are readily available. Replacement heaters are also offered for Diffusion Pumps manufactured by Denton Vacuum, Edwards High Vacuum, Perkin Elmer and others. For Varian 10", 16" and 20" Diffusion Pumps, ISA can provide "full power" heaters which produce 20% more heat than their "low power" alternatives for maximum pump throughput and high processing rates for vacuum systems.

ISA can provide custom replacement heaters for foreign manufactured and obsolete Diffusion Pumps and for cast-in or pancake style heaters from which you are getting an unsatisfactory performance. We can provide heaters for Diffusion Pumps in twenty-three different casting sizes and configurations. In addition, the heating elements can be manufactured to voltage and wattage specifications which meet your Diffusion Pump requirements.

When ordering please supply the ISA part number, heater watts and volts along with the quantity required. *Custom heaters cannot be returned.

HEATERS FOR CVC PRODUCTS DIFFUSION PUMPS

PUMP SIZE	PUMP MODEL	HEATER TYPE	HEATER WATTS/VOLTS	ISA PART #	REPLACES OEM HEATER PART #	HEATERS PER PUMP	TRADE PRICE
2"	PMC-2	Cartridge	300W 115V	AW3C040-0111	65192	1	Call
2"	PMC-2	Cartridge	300W 208V	AW3C040-0110	65192-2	1	Call
2"	PMC-2	Cartridge	300W 230V	AW3C040-0113	65192-1	1	Call
2"	KS-200	Cartridge	500W 115V	AW4C044-0115	51832	1	Call
4"	PMC-4	Cartridge	300W 115V	AW3C040-0111	65192	4	Call
4"	PMC-4	Cartridge	300W 208V	AW3C040-0110	65192-2	4	Call
4"	PMC-4	Cartridge	300W 230V	AW3C040-0113	65192-1	4	Call
6"	PMC-6	Cartridge	300W 115V	AW3C040-0111	65192	6	Call
6"	PMC-6	Cartridge	300W 208V	AW3C040-0110	65192-2	6	Call
6"	PMC-6	Cartridge	300W 230V	AW3C040-0113	65192-1	6	Call
6"	PVMS-10	Platen	2200W 230V	A-2223-6/5D	285801-2	1	Call
10"	PMC-10	Cartridge	250W 208V	AW3C034-0114	270819-0002	18	Call
10"	PMC-10	Cartridge	250W 230V	AW3C034-0112	270819	18	Call
10"	PVMS-11,12	Platen	5000W 230V	A-5023-10/9D	281463-1	1	Call
10"	PVMS-11,12	Platen	5000W 460V	A-5046-10/9D	281463-2	1	Call
16"	PVM-16	Platen	1600W 230V	A-1623-8/2R	281760-2	6	Call
20"	PVM-20	Platen	350W 115V	A-3/512-2/9D	5507892-0001	36	Call
20"	PMC-20C	Ring	4310W 230V	A-4323-12/3R1	269933-1	Inner	Call
20"	PMC-20C	Ring	4310W 460V	A-434612/3R1	269933-3/5	Inner	Call
20"	PMC-20C	Ring	6690W 230V	A-6723-12/7R1	269933-2	Outer	Call
20"	PMC-20C	Ring	6690W 460V	A-6746-17/7R1	269933-4/6	Outer	Call
32"	PVM-32	Platen	750W 115V	A-7/512-4/9D	279503-001	30	Call
32"	PVM-32	Platen	750W 230V	A-7/523-4/9D	279503-0002	30	Call
32"48"	PMC32C-48C	Ring	8930W 230V	A8923-23/9R1	269217-5	Inner	Call
32"48"	PMC32C-48C	Ring	8930W 460V	A8946-23/9R1	269217-1/3	Inner	Call
32"48"	PMC32C-48C	Ring	11350W 230V	A11423-29/8R1	269217-6	Outer	Call
32"48"	PMC32C-48C	Ring	11350W 460V	A11446-29/8R1	269217-2/4	Outer	Call
All Size	Various	All types	As Required	Custom	Qty1-3 Units		Call
All Size	Various	All types	As Required	Custom	Qty 4+ Units		Call

VACUUM DIFFUSION PUMP HEATERS

HEATERS FOR COOKE VACUUM DIFFUSION PUMPS

PUMP SIZE	PUMP MODEL	HEATER TYPE	HEATER WATTS/VOLTS	ISA PART #	REPLACES OEM HEATER PART #	HEATERS PER PUMP	TRADE PRICE
4"	DPD-4-1250	Platen	1350W 115V	A1412-5/5D	621-04	1	Call
4"	DPD-4-1250	Platen	1350W 230V	A1423-5/5D	622-04	1	Call
6"	DPD-6-2400	Platen	2150W 230V	A2223-7/3D	622-06	1	Call
All Size	Various	All types	As Required	Custom	Qty1-3 Units		Call
All Size	Various	All types	As Required	Custom	Qty 4+ Units		Call

HEATERS FOR VARIAN/NRC DIFFUSION PUMPS

PUMP SIZE	PUMP MODEL	HEATER TYPE	HEATER WATTS/VOLTS	ISA PART #	REPLACES OEM HEATER PART #	HEATERS PER PUMP	TRADE PRICE
2"	HSA	Cartridge	350W 120V	AW5C030-0117	0181-6473-01-100	1	Call
2"	HS-2	Cartridge	450W 120V	AW5C033-0118	0181-6473-02-125	1	Call
2"	M-2	Platen	450W 120V	4/512-2/9	0181-6472-03-120	1	Call
4"	H4X,VHS-4	Platen	1450W 120V	1512-4/9D	0181-6473-04-205	1	Call
4"	H4X,VHS-4	Platen	1450W 208V	1521-4/9D	0181-6473-210	1	Call
4"	H4X,VHS-4	Platen	1450W 240V	1524-4/9D	0181-6473-04-250	1	Call
4"	M-4,NHS-4	Platen	1190W 120V	1512-4/9D	0181-6473-04-100	1	Call
4"	M-4,NHS-4	Platen	1190W 240V	1224-4/9D	0181-6473-04-200	1	Call
4"	Various	Platen	As Required	Custom 4/9D	Qty 1-3 Units	1	Call
4"	Various	Platen	As Required	Custom 4/9D	Qty 4+ Units	1	Call
4"	HS4/0161	Platen	1000W/120V	1012-5D	0181-6473-04-004	1	Call
4"	Various	Platen	As Required	Custom 5D	Qty1-3 Units	1	Call
4"	Various	Platen	As Required	Custom 5D	Qty 4+ Units	1	Call
6"	VHS6,VHS250	Platen	2200W 120V	2212-6D	0181-6473-06-125	1	Call
6"	VHS6,VHS250	Platen	2200W 208V	2221-6D	0181-6473-06-175	1	Call
6"	VHS6,VHS250	Platen	2200W 240V	2224-6D	0181-6473-06225	1	Call
6"	VHS6,HVS250	Platen	2200W 480V	2248-6D	Note Listed	1	Call
6"	M-6,NHS-6*	Platen	1785W 120V	1812-6D	0181-6473-06-100	1	Call
6"	M-6,NHS-6*	Platen	1500W 208V	1521-6D	0181-6473-06-150	1	Call
6"	M-6,NHS-6*	Platen	1785W 240V	1824-5D	0181-6473-06-200	1	Call
6"	Various	Platen	As Required	Custom 6D	Qty 1-3 Units	1	Call
6"	Various	Platen	As Required	Custom 6D	Qty 4+ Units	1	Call
6"	HS6/0162	Platen	1800W 120V	1812-7D	0181-6473-01-005	1	Call
6"	HS6/0162	Platen	1800W 240V	1824-7D	0181-6473-02-006	1	Call
6"	Various	Platen	As Required	Custom 7D	Qty 1-3 Units	1	Call
6"	Various	Platen	As Required	Custom 7D	Qty 4+ Units	1	Call
10"	HS-10	Platen	3900W 208V	3921-11D	Not Listed	1	Call
10"	HS-10	Platen	3900W 240V	3924-11D	Not Listed	1	Call
10"	HS-10	Platen	3900W 480V	3948-11D	Not Listed	1	Call
10"	HS-10	Platen	3300W 480V	3348-11D	0181-6473-10-230	1	Call
10"	Various	Platen	As Required	Custom 11D	Qty 1-3 Units	1	Call
10"	Various	Platen	As Required	Custom 11D	Qty 4+ Units	1	Call
10"	VHS-10,VHS-400	Platen	5000W 208V	5021-12D	Not Listed	1	Call

VACUUM DIFFUSION PUMP HEATERS

HEATERS FOR VARIAN/NRC DIFFUSION PUMPS CONTINUED

PUMP SIZE	PUMP MODEL	HEATER TYPE	HEATER WATTS/VOLTS	ISA PART #	REPLACES OEM HEATER PART #	HEATERS PER PUMP	TRADE PRICE
10"	VHS-10,VHS-400	Platen	5000W 240V	5024-12D	Not Listed	1	Call
10"	VHS-10,VHS-400	Platen	5000W 480V	5048-12D	Not Listed	1	Call
10"	VHS-10,VHS-400	Platen	4400W 208V	4421-12D	0181-6473-10-140 (x2)	1	Call
10"	VHS-10,VHS-400	Platen	4400W 240V	4424-12D	0181-6473-10-150(x2)	1	Call
10"	VHS-10,VHS-400	Platen	4400W 480V	4448-12D	0181-6473-10-170(x2)	1	Call
10"	Various	Platen	As Required	Custom 12D	Qty 1-3 Units	1	Call
10"	Various	Platen	As Required	Custom 12D	Qty 4+ Units	1	Call
16"	HS-16	Platen	3200W 240V	3224-8R	Not Listed	3	Call
16"	HS-16	Platen	3200W 480V	3248-8R	Not Listed	3	Call
16"	HS-16	Platen	2700W 240V	2724-8R	0181-6473-16-035	3	Call
16"	HS-16	Platen	2700W 480V	2748-8R	0181-6473-16-045	3	Call
16"	Various	Platen	As Required	Custom 8R	Qty 1-2 Units	3	Call
16"	Various	Platen	As Required	Custom 8R	Qty 3+ Units	3	Call
20"	HS-20	Platen	2400W 240V	2424-10R	Not Listed	6	Call
20"	HS-20	Platen	2400W 480V	2448-10R	Not Listed	6	Call
20"	HS-20	Platen	2000W 240V	2024-10R	0181-6473-20-060	6	Call
20"	HS-20	Platen	2000W 480V	2048-10R	0181-6473-20-070	6	Call
20"	Various	Platen	As Required	Custom 10R	Qty 1-3 Units	6	Call
20"	Various	Platen	As Required	Custom 10R	Qty 4+ Units	6	Call
32"	HS-32	Platen	4000W 240V	4024-14R	0181-6473-32-075	6	Call
32"	HS-32	Platen	4000W 480V	4048-14R	0181-6473-32-075	6	Call
32"	Various	Platen	As Required	Custom 14R	Qty 1-3 Units	6	Call
32"	Various	Platen	As Required	Custom 14R	Qty 4+ Units	6	Call
35"	NHS-35	Platen	4000W 240V	4024-16/8R	0181-6472-35248	6	Call
35"	NHS-35	Platen	4000W 480V	4048-16/8R	0181-6472-35-248	6	Call
35"	Various	Platen	As Required	Custom 16/8R	Qty 1-3 Units	6	Call
35"	Various	Platen	As Required	Custom 16/8R	Qty 4+ Units	6	Call

*Please note pump type when ordering

VACUUM DIFFUSION PUMP HEATERS

HEATERS FOR TORR VACUUM DIFFUSION PUMPS

PUMP SIZE	PUMP MODEL	HEATER TYPE	HEATER WATTS/VOLTS	ISA PART #	REPLACES OEM HEATER PART #	HEATERS PER PUMP	TRADE PRICE
5"	R-620	Platen	1950W 208V	2021-7DT	957101	1	Call
10"	R-1020	Platen	4300W 208V	4321-11DT	957111	1	Call
All	Various	Platen	As Required	Custom	Qty1-3 Units	1	Call
All	Various	Platen	As Required	Custom	Qty 4+ Units	1	Call

HEATERS FOR VEECO VACUUM DIFFUSION PUMPS

PUMP SIZE	PUMP MODEL	HEATER TYPE	HEATER WATTS/VOLTS	ISA PART #	REPLACES OEM HEATER PART #	HEATERS PER PUMP	TRADE PRICE
3"	300 Series	Platen	350W 115V	3/512-3/3	1180-030-00	1	Call
6"	7700 Series	Platen	1800W 208V	1821-6D	1180-220-00	1	Call
6"	7760 Series	Platen	1800W 208V	1821-6D	1180-220-00	1	Call
10"	747 Series	Platen	1800W 208V	1821-6D	1180-220-00	1	Call

HEATERS FOR EDWARDS VACUUM DIFFUSION PUMPS

PUMP SIZE	PUMP MODEL	HEATER TYPE	HEATER WATTS/VOLTS	ISA PART #	REPLACES OEM HEATER PART #	HEATERS PER PUMP	TRADE PRICE
4"	E04	Platen	850W 120V	8/512-4D	H017-00-140	1	Call
4"	E04	Platen	850W 240V	8/524-4D	H017-00-137	1	Call
6"	E06	Platen	1000W 120V	1012-4/9D	H017-00-059	1	Call
6"	E06	Platen	1000W 240V	1024-4/9D	H017-00-054	1	Call
9"	E09	Platen	1400W 120V	1412-6/9D	H017-00-161	1	Call
9"	E09	Platen	1400W 240V	1424-6/9D	H017-00-158	1	Call
12"	E012	Platen	1250W/120V	1312-6D	H017-00-181	3	Call
12"	E012	Platen	1250W 240W	1324-6D	H017-00-179	3	Call
10"	HT10	Platen	1700W 220V	1722-6DE	26906-016	3	Call
10"	HT10	Platen	1700W 460V	1746-6DE	26906-013	3	Call
18"	18B4	Platen	2000W 220V	2022-6DE	26906-026	3	Call
18"	18B4	Platen	2000W 460V	2046-6DE	26906-030	3	Call
16"	HT16	Platen	1500W 220V	1522-6DE	26906-023	6	Call
16"	HT16	Platen	1500W 460V	1546-6DE	26906-019	6	Call
20"	HT20	Platen	2100W 220V	2122-10RE	26906-033	6	Call
20"	HT20	Platen	2100W 460V	2146-10RE	26906-037	6	Call

VACUUM DIFFUSION PUMP HEATERS

HEATERS FOR MISCELLANEOUS VACUUM DIFFUSION PUMPS

PUMP SIZE	PUMP MODEL	HEATER TYPE	HEATER WATTS/VOLTS	ISA PART #	REPLACES OEM HEATER PART #	HEATERS PER PUMP	TRADE PRICE
2"	-	Platen	As Required	Custom 3/2D	-	1	Call
2"	-	Platen	As Required	Custom 3/3D	-	1	Call
4"	-	Platen	As Required	Custom 4D	-	1	Call
4"	-	Platen	As Required	Custom 4/2D	-	1	Call
6"	-	Platen	As Required	Custom 6/9D	-	1	Call
32"	-	Platen	As Required	Custom 15R	-	6	Call

PUMP HEATER ACCESSORIES

High Temperature Manganese Nickel Conductor Wire

(1000 degrees F Max)

Recommended as lead wires for connections to heater terminals in high temperature areas.

Use with porcelain bead insulators.

Part # A269270 Awg Size 10 Max. AMPS at 800 deg. F 30 **Price: Call**

Porcelain Bead Insulators:

Withstand temperatures to 2000 degrees

Part#A263943 Wire Size 10 Beads per foot:38 **Price: Call**

High Temperature Nickel Ring Terminals, STAK-ON Type:

Recommended for connections in high temperature areas:

Part #A322334 Wire Size 16-14 Stud Size: #8 **Price: Call**

Part #A323745 Wire Size 12-10 Stud Size #8 **Price: Call**

Thermon T-63--High Temperature Heat Transfer Cement for P\Temperatures to 1250 degrees F:

Recommended for use with Ring heaters. Also, for mounting Platen Heaters where there is poor contact between heater and pump boiler plate. Not recommended for Cartridge heaters.

Part #A63 **Price:138/gallon**

High Temperature (840 degree F maximum) Insulated "A" Nickel Conductor Wire:

Part #A0585-8 Size AWG 14 Max. AMPS @ 680 deg.F 12 **Price: Call**

Part #A0585-9 Size AWG 12 Max. AMPS @ 680 deg.F 15 **Price: Call**

ISA offers full Rebuilding Services for all your Diffusion and Mechanical Pumps,
See Service section for details. Page 98.