

ProHeat™ 35

Weld Preheating and Stress Relieving

January 2011 • Index No. IN/11.0

Induction Heating System 

Quick Specs



Applications

Transmission Pipeline
Pipe Fabrication Shops
Power Piping
Petrochemical
Shipbuilding
Mining Equipment Maintenance
Drill Pipe Manufacturing
Shrink Fit

Process

Induction Heating

IP 23CM

Input Power:

400 VAC, 3 Phase

Rated Output:

35 kW 100% DC, 5-30 kHz

Dimensions:

H: 635 mm
W: 552 mm
D: 933 mm

Weight:

103 kg

The Power of Blue.®

Easy to install primary power through panel that does not require removal of sheet metal.

Multiple output provides two insulated connectors for air-cooled blankets or liquid-cooled cables.

Versatile mobility through a lifting eye or optional running gear designed for construction and maintenance. (option)

On-board temperature control provides for manual- or temperature-based programming in a simple-to-learn operator interface.

Multiple control thermocouple inputs (patent-pending) are available to control on the hottest TC during heating and coolest TC during cooling for uniform heating and quality.

Open output detection (patent-pending) prevents system operation without a covered output receptacle (cable or protective plug).

ProHeat 35 Liquid-Cooled System shown.

Isolation fault protection

(patented) provides automatic system shut down should power source output short to ground. A sense lead provides direct feedback to the power source to initiate fault condition.

Uniform heating

is maintained along and through the heat zone by using induction to heat within the material. The surface of the part is not marred by localized conducted heat at higher than specified temperatures.

Improved working environment

is created during welding. Welders are not exposed to open flame, explosive gases and hot elements associated with fuel gas heating and resistance heating.

High energy-efficient systems

(more than 90% efficient) transfers more energy to the part, decreasing heating times and improving power efficiency (less than 60-amp current draw).



Cable identification system

(patent-pending) knows the type of cable attached and limits output to protect cables and blankets.



MADE IN USA
APPLETON, WI



ITW Welding Products

Edisonstraat 10
3261 LD Oud-Beijerland
The Netherlands

Contact

Tel.: +31 (0) 186 641 444
Fax: +31 (0) 186 640 880

info@itw-welding.com
www.itw-welding.com



Specifications

3
Phase

Rated Output	Output frequency	Primary Amperage	Primary Voltage 50 Hz	Dimensions	Weight
35 kW at 100% Duty Cycle	5- 30 kHz	59 A	400 VAC	H: 635 mm W: 552 mm D: 933 mm	103 kg

Ordering Information

Power Source	Stock No.	Description
ProHeat 35	907 432	Power Source including 2 sense leads
Running Gear	195 436	For power source or cooler
Heavy-Duty Induction Cooler	195 406	
Remote Contactor Control	043 932	7,6 m Provides remote on/off for power source
Temperature Measurement Accessoires		
Digital recorder with Protective Enclosure	195 374	Includes temperature output cable
Thermocouple Attachement Unit	194 959	Welder
Thermocouple (Welded)	194 999	Type K thermo. Wire, 150 m
Thermocouple Connector (used with 194 999)	195 098	Type K, 2-pin male, pkg of 10
Thermocouple (Contact)	200 202	Contact Termocouple Sensor
Thermocouple Extension	194 968	15,5 m for connecting 6 Thermocouples
	200 201	7,6 m for connecting 1 Thermocouple armored

Ordering Information Accessoires

ProHeat 35 Air-Cooled Components

Output	195 404	7,62 m
Extension	195 405	15,24 m
Cable	300 362	22,86 m
	195 437	In series cable adapter 70cm
Induction Blankets (Selected based on pipe size or plate length)	300 336	For 152 cm (60 in.) pipe 502 x 19 cm
	224 584	For 142 cm (56 in.) pipe 470 x 19 cm
	300 060	For 132 cm (52 in.) pipe 439 x 19 cm
	300 061	For 122 cm (48 in.) pipe 406 x 19 cm
	300 062	For 117 cm (46 in.) pipe 391 x 19 cm
	300 063	For 107 cm (42 in.) pipe 358 x 19 cm
	300 064	For 97 cm (38 in.) pipe 328 x 19 cm
	300 065	For 91,5 cm (36 in.) pipe 310 x 19 cm
	300 066	For 86 cm (34 in.) pipe 295 x 19 cm
	300 067	For 81 cm (32 in.) pipe 279 x 19 cm
	300 068	For 76 cm (30 in.) pipe 264 x 23 cm
	300 069	For 71 cm (28 in.) pipe 246 x 23 cm
	300 070	For 66 cm (26 in.) pipe 231 x 23 cm
	300 071	For 61 cm (24 in.) pipe 216 x 23 cm
	300 072	For 56 cm (22 in.) pipe 198 x 23 cm
	300 073	For 51 cm (20 in.) pipe 183 x 23 cm
	300 074	For 46 cm (18 in.) pipe 168 x 23 cm
	300 075	For 41 cm (16 in.) pipe 152 x 26 cm
	300 077	For 36 cm (14 in.) pipe 135 x 26 cm
	300 078	For 31 cm (12 in.) pipe 119 x 26 cm
300 079	For 27 cm (10,75 in.) pipe 114 x 29 cm	
300 080	For 22 cm (8,625 in.) pipe 104 x 33 cm	
Replacement Blanket Sleeves	232 453	For 152 cm (60 in.) pipe 502 x 19 cm
	217 628	For 142 cm (56 in.) pipe 490 x 19 cm
	200 262	For 132 cm (52 in.) pipe 455 x 19 cm
	198 670	For 122 cm (48 in.) pipe 422 x 19 cm
	194 809	For 117 cm (46 in.) pipe 404 x 19 cm
	198 669	For 107 cm (42 in.) pipe 371 x 19 cm
	194 813	For 97 cm (38 in.) pipe 338 x 19 cm
	194 705	For 91,5 cm (36 in.) pipe 323 x 19 cm
	194 812	For 86 cm (34 in.) pipe 305 x 19 cm
	194 811	For 81 cm (32 in.) pipe 289 x 19 cm
	198 668	For 76 cm (30 in.) pipe 272 x 23 cm
	198 667	For 71 cm (28 in.) pipe 254 x 23 cm
	198 666	For 66 cm (26 in.) pipe 239 x 23 cm
	194 706	For 61 cm (24 in.) pipe 221 x 23 cm
	198 665	For 56 cm (22 in.) pipe 206 x 23 cm
	198 664	For 51 cm (20 in.) pipe 188 x 23 cm
	194 707	For 46 cm (18 in.) pipe 173 x 23 cm
	194 887	For 41 cm (16 in.) pipe 158 x 26 cm
	194 888	For 36 cm (14 in.) pipe 140 x 26 cm
	194 889	For 31 cm (12 in.) pipe 124 x 26 cm
195 338	For 27 cm (10,75 in.) pipe 114 x 29 cm	
195 337	For 22 cm (8,625 in.) pipe 104 x 33 cm	

ProHeat 35 Liquid-Cooled Components

Output	300 180	3,04 m incl. 2 p. 204877
Extension Cable	195 402	7,62 m incl. 2 p. 204877
	195 403	15,24 m incl. 2 p. 204877
	204 877	Water jumpers
Heavy-Duty Induction Cooler	951 142	Including coolant Nr. 043810
Coolant	300 355	4 gallons (case)
Heating Cables	300 045	9,14 m
	300 046	15,24 m
	300 047	24,38 m
	300 049	42,67 m
Preheat Covers	204 611	9,14 m
	204 614	15,24 m
	204 620	24,38 m
Preheat Insulation	204 669	1,3 x 15,2 x 305 cm woven silica
	195 376	1,3 x 15,2 x 610 cm woven silica
	211 474	1,3 x 30,5 x 305 cm woven silica
	194 965	High-temperature rope 15,24 m 2,54 cm wide
Postweld Heat Treatment Insulation Blankets	194 947	For 7 cm (2,5 in.) pipe, 31 x 38 cm
	194 948	For 10 cm (4 in.) pipe, 31 x 54cm
	195 477	For 13 cm (5 in.) pipe, 31 x 66 cm
	194 949	For 15 cm (6 in.) pijp, 31 x 84 cm
	195 476	For 18 cm (7 in.) pipe, 46 x 87 cm
	194 950	For 21 cm (8 in.) pipe, 46 x 99 cm
	194 951	For 26 cm (10 in.) pipe, 46 x 114 cm
	194 952	For 31 cm (12 in.) pipe, 46 x 127 cm
	194 953	For 36 cm (14 in.) pipe, 46 x 137 cm
	195 954	For 41 cm (16 in.) pipe, 46 x 147 cm
	194 955	For 46 cm (18 in.) pipe, 61 x 170 cm
	194 956	For 51 cm (20 in.) pipe, 61 x 185 cm
	194 957	For 56 cm (22 in.) pipe, 61 x 201 cm
	194 958	For 61 cm (24 in.) pipe, 61 x 216 cm
	195 502	For 66 cm (26 in.) pipe, 61 x 231 cm
	194 998	For 71 cm (28 in.) pipe, 61 x 249 cm
	207 817	For 76 cm (30 in.) pipe, 61 x 267 cm
222 228	For 81 cm (32 in.) pipe, 61 x 284 cm	
300 155	For 91 cm (36 in.) pipe, 61 x 320 cm	
300 156	For 101 cm (40 in.) pipe, 61 x 355 cm	