

IntelliCOAT™

Automation and Process Control

IntelliCOAT™ is the world’s first fully-automated system for the controlled application of heat shrinkable sleeves. The field friendly system provides a step-change enhancement in the quality, consistency and productivity of field-applied coatings by means of automation. In conjunction with Canusa-CPS’s PE and PP based Factory Grade™ coating materials, the IntelliCOAT™ system is able to deliver a seamless, high-performance, three-layer anti-corrosion coating system for the entire length of a pipeline.

Quality

- IntelliCOAT™ automates best practice installation techniques to produce high quality field joint coating applications that are fully repeatable from joint to joint. Installation programs are developed to meet specific project needs and can be qualified through comprehensive test programs before implementation for all coating requirements during pipeline construction.

Consistency

- The IntelliCOAT™ application process is precisely controlled by a PLC-based control system with closed-loop feedback control. Once the application program is qualified, operators simply lower the IntelliCOAT™ coil onto the pre-positioned sleeve, and the system takes care of the rest, minimizing all possible sources of variation.

Productivity

- Using IntelliCOAT™, a contractor can precisely forecast the daily field joint coating productivity, without reliance on operators to conduct any labour-intensive work steps. The application time per joint is pre-set at the qualification stage so production can proceed on schedule.

Safety

- The IntelliCOAT™ system delivers enhanced operator safety through its enclosed heating design and rapid heat up and cool down times. IntelliCOAT™ eliminates the need for gas storage facilities and the open flames associated with conventional field joint coating application methods.

IntelliCOAT™ Control Panel Specifications

PROPERTY	UNITS	VALUE
Maximum Power Rating	kW	175
Voltage (3-Phase)	V	380
Maximum Current Rating	A	265

PROPERTY	UNITS	VALUE
Frequency	Hz	50-60
Operating Temperature Range (Ambient Conditions)	°C	-30 to +55
Height	mm	1735
Width	mm	1620
Depth (with Stand)	mm	1320
Power Cables - Length	m	10
Umbilical Cables - Length	m	15
Weight	kg	410
Weight - Umbilical Cables	kg	85
Control Panel Enclosure Rating	-	NEMA 3R / IP42
Electrical Certification Standard	-	CE / UL / CSA

IntelliCOAT™ Coil Specifications

NOMINAL SYSTEM SIZE			8.625"	14"	16"	20"	26"	32"	36"	42"	48"	56"
ØP	Pipe Diameter (Min)	in	4.5	8.625	12.75	16	20	28	30	38	44	52
ØP	Pipe Diameter (Max)	in	8.625	14	16	20	26	32	36	42	48	56
ØC	Coil Internal Diameter	mm	345	500	575	655	800	965	1,075	1,205	1,420	1,560
A	Height (Open/Closed)	mm	1,325 / 1,415	1,440 / 1,570	1,540 / 1,690	1,565 / 1,720	1,695 / 1,870	1,810 / 2,005	1,955 / 2,170	2,035 / 2,275	2,230 / 2,515	2,320 / 2,630

	NOMINAL SYSTEM SIZE		8.625"	14"	16"	20"	26"	32"	36"	42"	48"	56"
B	Width (Open/Closed)	mm	1,215 / 835	1,540 / 990	1,645 / 1,025	1,825 / 1,140	2,135 / 1,290	2,460 / 1,470	2,605 / 1,530	2,900 / 1,695	3,295 / 1,875	3,610 / 2,050
C	Min Distance to Centreline of Pipe	mm	510	580	605	655	730	805	855	935	1,010	1,110
D	Depth (Top) - Maximum	mm	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250
E	Depth (Top) - Frame	mm	1,005	1,005	1,005	1,005	1,005	1,005	1,005	1,005	1,005	1,005
F	Heating Width	mm	810	810	810	810	810	810	810	810	810	810
G	Sling Height	mm	1,790	1,945	2,065	2,095	2,245	2,380	2,540	2,650	2,890	3,005
-	Weight	kg	175	200	225	250	285	340	380	420	505	575
-	Power Rating (Coil)	kW	68	91	102	113	136	141	155	169	159	174
-	Current Rating (Coil)	A	104	138	156	173	208	215	236	258	243	265

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