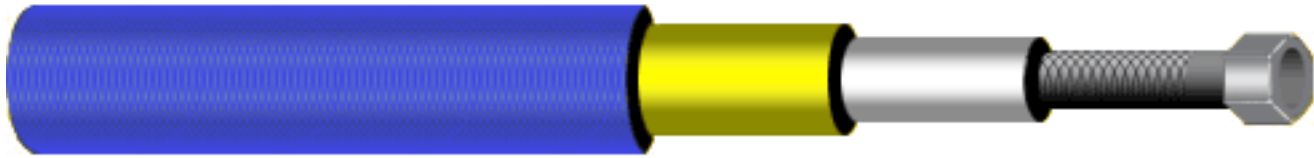


# Diebolt & Company

## Product Notes & Specifications

### ElectraFlo II Flexible Heated Hose Series C Electrically Heated Convoluted Core Hoses



#### **Hose Description**

ElectraFlo II Series CL high temperature hose features a flexible metal Teflon Core, electrically heated hose for operation to 400°F (204°C). Models CM & CH hoses feature braided stainless steel cores electrically heated for operation to 625°F (329°C). All models feature good flexibility and can be operated in continuous movement conditions. Our state of the art proprietary hose heater element provides optimum temperature uniformity throughout the entire heated length. High temperature hose come standard with thermal insulation and are available with a tough, extruded polyurethane jacket for outdoor service or an abrasion resistant, braided polyester sleeve for indoor use and are ideally suited to Hot Melt Adhesives & Chemicals applications. All high temperature hose are supplied electrically and hydraulically complete, ready to use.

#### **Electrical**

Operating Voltage - any phase voltage to 480 VAC. Depending on length, hoses may be ordered to operate on 240 or 480 VAC, three-phase. Power Density is based on the desired operating temperature, lowest ambient temperature and size of hose. Our engineering department determines the power density required for your electrically heated hose application.

#### **Temperature**

Series C electrically heated hose must be controlled (except for the self-limiting "SL" version) to maintain the desired operating temperature. A temperature hose heater sensor is installed during construction and, unless otherwise specified, will be installed three feet from the power end of the hose.

#### **Construction**

##### **Core Material**

Model CL- Convoluted Teflon  
Models CM & CH - Stainless Steel

##### **Reinforcement**

Model CL - 100% Stainless Braid  
Model CM - 100% Stainless Braid  
Model CH - Multiple Stainless Braids

##### **Heating Element**

Constant-Power Density & Self Limiting - Highly Flexible Design - Maintains Uniform Temperature

**Thermal Insulation**

Non Toxic and Highly Efficient

**External Jacket**

Indoor Service - Abrasion Resistant Braided Sleeving

Outdoor Service - Tough, Flexible Reinforced PVC Jacket

**Fittings**

37° Female Swivel (JIC), Male Pipe (NPT), Female Pipe (NPT), Tube for Compression Fitting, Floating Flange. Others available.

**Power/Control Cable**

Six Feet Standard Length (longer lengths available)

Please contact our customer service department for additional specifications or a quote.

**Table 1: Typical Hose Applications**

APPLICATION	TYPE OF USES
Product Transfer	Plastics Hot Melt Adhesives Petroleum Products
Viscosity Control	Asphalt, Tar, Fats, Oil, Wax Chemicals

**Hose Specifications****Table 2: Model CL Convuluted Teflon Hose (To 400°F)**

HOSE SIZE	INSIDE DIAMETER	FINISHED DIAMETER	MAXIMUM OPERATING PSI 400°F	MINIMUM BEND RADIUS	NORMAL WEIGHT LB/FT
8	1/2"	2.00"	1100	12"	0.6
12	3/4"	2.35"	1000	14"	0.7
16	1"	2.62"	1000	15"	0.7
20	1-1/4"	3.00"	800	16"	1.0
24	1-1/2"	3.25"	600	18"	1.5
32	2"	3.75"	400	20"	1.9
48	3"	4.75"	225	26"	3.2
64	4"	5.75"	150	30"	4.5

**Table 3: Model CM Convuluted Stainless Steel Hose (To 625°F)**

HOSE SIZE	FINISHED DIAMETER	MAXIMUM OPERATING PSI 400°F	MINIMUM BEND RADIUS	NORMAL WEIGHT LB/FT
1/4"	1.75"	1600	9"	0.43
3/8"	1.85"	1767	10"	0.50
1/2"	2.10"	1767	12"	0.54
3/4"	2.30"	948	14"	0.80

**Table 3: Model CM Convoluted Stainless Steel Hose (To 625°F)**

HOSE SIZE	FINISHED DIAMETER	MAXIMUM OPERATING PSI 400°F	MINIMUM BEND RADIUS	NORMAL WEIGHT LB/FT
1"	2.50"	720	16"	1.10
1-1/4"	3.00"	680	18"	1.30
1-1/2"	3.25"	416	20"	1.60
2"	3.80"	384	22"	2.00
2-1/2"	4.30"	260	24"	2.40
3"	4.80"	200	26"	2.80
4"	5.80"	160	30"	3.30

**Table 4: Model CH High Pressure Hose (To 625°F)**

HOSE SIZE	FINISHED DIAMETER	MAXIMUM OPERATING PSI 400°F	MAXIMUM OPERATING PSI 600°F	MINIMUM BEND RADIUS	NORMAL WEIGHT LB/FT
1/4"	1.75"	5800	4292	9"	0.45
3/8"	1.85"	4000	2960	10"	0.52
1/2"	2.10"	3700	2738	12"	0.56
3/4"	2.30"	2200	1628	14"	0.82
1"	2.50"	2000	1480	16"	1.12
1-1/4"	3.00"	1600	1184	18"	1.32
1-1/2"	3.50"	1500	1110	26"	3.20
2"	4.00"	1100	N/A	30"	4.50

**Temperature Sensors**

J = Type J Thermocouple, K = Type K Thermocouple, T = Thermistor, R = RTD (100 OHM), N = No Sensor

**Fittings**

J = JIC Female Swivel, J/TA = JIC Female Swivel with tube adapter, M = NPT Male Pipe, T = Tube for Compression Fitting.

**How To Order**

Select Model CL, CM or CH Hose Size (from spec charts above). Length in Ft. Increments, Temperature Sensor (see codes above). Operating Voltage (indicate actual voltage) and Fitting (see codes above).

Example: CH-8-10-J-220-J

**Diebolt & Company**

Call 1-800-DIEBOLT (343-2658) or email [sales@dieboltco.com](mailto:sales@dieboltco.com)