

CANTY

PROCESS TECHNOLOGY

HYL 250 HYPERBARIC CHAMBER LIGHTING SYSTEMS



HOW IT WORKS

The HYL 250 Hyperbaric Chamber Light is the safest, most efficient chamber lighting system available. The HYL 250 system consists of a high output, 250W halogen light source and a 1" NPT, 1-1/4" NPT (half or full coupling) or face sealed light pipe chamber coupling. The patented system provides bright white 3400°K color temperature, uniform illumination into a pressurized chamber. The color temperature and illumination levels of a Canty Light have been the industry standard for over 40 years.

The Canty Light features a high output 250W, 120V bulb. Our lights are the brightest chamber lights in the world! An infra-red filter is standard equipment on every light to eliminate all heat from the light, providing only cool, effective light into the chamber. A quiet, high output fan is used to cool the light source. An internal thermal switch automatically shuts off the light if the fan is blocked. An optional drip proof cover is available for the light source for wet environments. The 120V AC light connects to a residential or commercial dimmer for complete light output control and flexibility.

The Canty Light Pipe chamber coupling provides a high pressure, sealed connection to the chamber. The Light Pipe fiber-optically transmits the light from the light source thru the pressure boundary, dispersing the light inside the chamber into an ideal conical output of 90°.

APPLICATIONS

- Hyperbaric Chambers
- Medical Chambers, Saturation Chambers
- Diving Recompression Chambers
- Altitude Chambers
- Diving Research Facilities

FEATURES

- Safest chamber lighting system on the market
- Efficient 250W, 120V Halogen Lamp. We put more light into the chamber than any other light!
- Ideal Illumination for Human Occupancy
- High Pressure Chamber Seal - 5000 PSI Max. Available With Face Seal Option
- Infra-Red Filter Eliminates All Heat From Light
- Easy To Install
- All Wiring and Maintenance Is External. No internal chamber wiring penetrators and wiring.
- Thermal Switch
- Brass Chamber Couplings Standard. 316L SS Option
- 90° Light Beam Dispersion
- Optional Drip Proof Cover
- Various Worldwide Approvals

SPECIFICATIONS

- 250W, 120V, 50/60 Hz Operation
- 3400°K Color Temperature
- Pressure Ratings at 120°F [49°C]:

Connection	Max. Pressure
1" NPT	1200 PSI
1-1/4" NPT	2500 PSI
US Navy Face Seal	5000 PSI
- NEMA Type 1 / IP10 Rating Is Standard. NEMA Type 2 / IP12 Rating With Optional Drip Proof Cover.
- Approximate Weight: 2.75 lbs [1.25kg] Not Including Input Cable
- 30' Input Cable With 5 Pin MS Connector Provided For Fast, Simple Connection To Light

APPROVALS

Various Models Include Approvals To:

- US Navy
- Coast Guard
- Lloyds
- ABS
- DNV
- CE

CANTY

JM Canty Inc
JM Canty Intl Ltd

Buffalo, NY USA
Dublin, Ireland

Ph: (716) 625 4227
Ph: +353 (01) 882 9621

Fax: (716) 625 4228
Fax: +353 (01) 882 9622

Light Pipe Chamber Coupling Options

CANTY LIGHT WITH
1" NPT OR 1-1/4" NPT CHAMBER COUPLING

CANTY LIGHT WITH
FACE SEAL CHAMBER COUPLING

DISTANCE FROM LIGHT PIPE D-Feet	WIDE BEAM	
	BEAM CIRCLE DIAMETER d-Feet	SURFACE ILLUM. Ft. Candles
1	2	700
3	6	80
5	10	30
10	20	7

	1" NPT	1-1/4" NPT
Half Coupling Length	1.18" [30mm]	1.31" [33mm]
Full Coupling Length	2.38" [60.5mm]	2.58" [65.5mm]

Typical System - Shown With 1" NPT Light Pipe Chamber Coupling

TYPICAL CANTY LIGHT

30' INPUT CABLE WITH 5 PIN MS CONNECTOR

TYPICAL CUSTOMER SUPPLIED
120V AC LIGHT DIMMER

Ordering Information

HOW TO ORDER: Select the appropriate symbols and build a part number as shown:

EXAMPLE:

HYL250 - 2 5 A W F B N

LIGHT PIPE CHAMBER COUPLING
F - 1" NPT Full Coupling
H - 1" NPT Half Coupling
3 - 1-1/4" NPT Full Coupling
4 - 1-1/4" NPT Half Coupling
N - Face Seal Coupling

DRIP PROOF COVER
N - Not Required (Standard)
D - Drip Proof Cover Required

NEMA Type 1 / IP10 Rating Is Standard.
NEMA Type 2 / IP12 Rating With Drip Proof Cover.

Chamber Coupling Material
B - Brass (Standard)
S - 316L Stainless Steel

CANTY

JM Canty Inc
JM Canty Intl Ltd

Buffalo, NY USA
Dublin, Ireland

Ph: (716) 625 4227
Ph: +353 (01) 882 9621

Fax: (716) 625 4228
Fax: +353 (01) 882 9622