

Hytech high brightness bell light can be used as main or secondary lighting system inside a hyperbaric environment. The LED bell light withstands pressures up to 500 MSW (1640 FSW). It might be used in oxygen rich atmospheres; wet or dry environments and helium environments (for helium environments it is necessary to fit an optional helium vent valve).

The high brightness LED bell light comes complete with counter connector 2 or 4 pin depending type. The pressure proof housing is made of a seawater resistant aluminum and hard anodized with Teflon coating to provide maximum resistant against corrosion.



The housing has been designed in such a way that it can be fit with different types of high power LEDs and LED driver electronics. This benefits that the light can be customized if there are special needs.

For special needs: it is possible to fit bleu or red LED lights for night lighting; or low power LEDs for emergency lighting which must operate from battery backup; also special driver electronics can be fit for low voltage, AC or DC systems.



### Standard size ranges and conditions

<b>Sizes:</b>	<b>Overall diameter</b>	80 mm (3,15")
	<b>Overall high</b>	37,5 mm (1,48")
	<b>Weight (approx.)</b>	340 gram
	<b>Mounting holes front</b>	2 x 4 mm stitch size 73 mm
	<b>Mounting holes back</b>	6 x M4 stitch 57 mm 360° / 6
<b>Environmental conditions:</b>	<b>Temperature</b>	-30 to +40 °C
	<b>Pressure</b>	Max 52 barg (750 PSI)

### Standard versions

Version	Power	Radiation angle	Luminous flux	Color
4130-1WDL	6 to 40 VDC 1,1 Watt	110°	45 lm	Daylight (5500°K)
4130-3WDL	6 to 40 VDC 3,2 Watt	140°	80 lm	Daylight (5500°K)
4130-5WDL	9 to 40 VDC 5,3 Watt	120°	240 lm	Daylight (6000°K)
4130-5WWW	9 to 40 VDC 5,3 Watt	120°	180 lm	Warm White (3300°K)
4130-10WDL	14 to 40 VDC 10,5 Watt	120°	500 lm	Daylight (6000°K)
4130-10WWW	14 to 40 VDC 10,5 Watt	120°	380 lm	Warm White (3300°K)
4130-20WDL	14 to 40 VDC 20,5 Watt	120°	1000 lm	Daylight (6000°K)
4130-20WWW	14 to 40 VDC 20,5 Watt	120°	800 lm	Warm White (3300°K)

**Note:**

- Luminous flux = minimum value as specified by the LED manufacturer. The actual value might be higher.
- LED's have a lifetime of 20.000 till 50.000 hours. During lifetime the light output might be less for example a 4130-10WDL LED has a average lifetime of 30.000 hours, after 30.000 hours output might be 70% of original light output.
- It is difficult to compare LED lighting with glow lights or halogen bulbs, but commonly a LED produces 4 till 6 times more usefull light than a halogen bulb of the same wattage.



**Hyperbaric Technology B.V.**

Blik 16 - 4941 SG - Raamsdonksveer - The Netherlands

☎ +31 (0)162 522202 ☎ +31 (0)162 519069

✉ hytech@hytech.nl 🌐 http://www.hytech.nl

### Application examples

Version	Application examples
4130-1WDL	Emergency light Orientation lights Reading light
4130-3WDL	Emergency light Orientation lights Main lighting small compartments Reading light
4130-5WDL 4130-5WWW 4130-10WDL 4130-10WWW 4130-20WDL 4130-20WWW	Emergency light Main light small compartments Main light DDC or Bell

### Important

The versions 4130-20WDL and 4130-20WWW need to be mounted on a flat surface to provide extra cooling or a optional mounting plate must be fitted to provide extra cooling. For special applications Hytech may advice.

*Do not hesitate to ask further information on technical assistance to meet your specific needs.*

<b>Standard option</b>	<b>DIM</b>	4 pin connector with dim function, two pins are used to connect with a variable resistor (pot meter) of 5000 Ohm or a pulse wide modulator incase more than one light should be dimmed at the same time. Ad - DIM to order number to specify a dimmable version. For example:4130-10WDL-DIM
	<b>HE</b>	A Helium vent can be mounted in the accessory port. This must be mounted in case helium mixtures are used as diving gas, it is recommended always to mount a helium vent at pressures above 50 MSW (165 FSW). Ad - HE to order no .... Example 4130-10WDL-HE

<b>Special</b>	<b>Night vision</b>	Versions with 1 or 3 or 5 Watt red or blue light.	
		<b>Red:</b>	Wave length 625 nm, Rad.angle 110°-130°, Lumi flux: 27-140 lm
	<b>Blue:</b>	Wave length: 470 nm, Rad.angle: 140°-150°, Lumi flux: 16-18 lm	
	<b>Front port</b>	Side emitting or angel emitting or focusing	
<b>Wiring diagrams</b>	Dimmer units, regulated power supplies, etc.		



**Hyperbaric Technology B.V.**

Blik 16 - 4941 SG - Raamsdonksveer - The Netherlands

☎ +31 (0)162 522202 ☎ +31 (0)162 519069

✉ [hytech@hytech.nl](mailto:hytech@hytech.nl) 🌐 <http://www.hytech.nl>