hönle group

Infrared

uv-technik Speziallampen

Check list for Infrared lamps

Date: _____

Name: _____ Company: _____ requested amount: _____

If known:

Manufacturer of the Infrared lamp: _____

Article- or catalogue number: _____

Does the lamp work fine in customers' application? ☐ Yes ☐ No

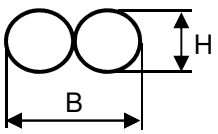
Should these information not be available, a new sample lamp has to be send to UV-Technik for inspection. (Otherwise, heating processes could probably not work in the system!)

Application:

Medium wave (IRM)	☐	for continuous operation or **very long** switching cycles with 800°C (1100K) up to 950°C (1200K)
Fast medium wave (IRsM)	☐	suitable for continuous operation and **very short** cycles with 1400°C (1700K) up to 1800°C (2100K)
Short wave (IRK)	☐	1800°C (2100K) up to 2400°C (2700K)
unknown	☐	

Geometry of quartz glass tube:

Twin tube

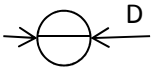


☐ 8,5 x 17 mm

☐ 11 x 22 mm

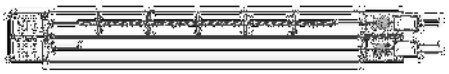
☐ 15 x 30 mm

Single tube

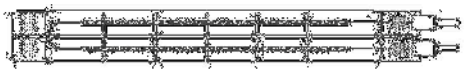


_____ mm in diameter

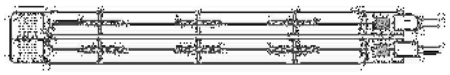
Design of twin tube lamp:



A ☐

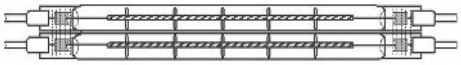


B ☐

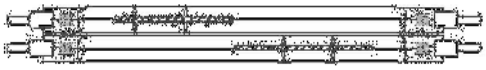


K ☐

- customized design possible acc. to techn. clarification -



C ☐



D ☐

Electrical values:

Operation voltage:	_____ V	Electrical power:	_____ W	Frequency	☐ 50 Hz
Operation current:	_____ A	Color temperature:	_____ K		☐ 60 Hz

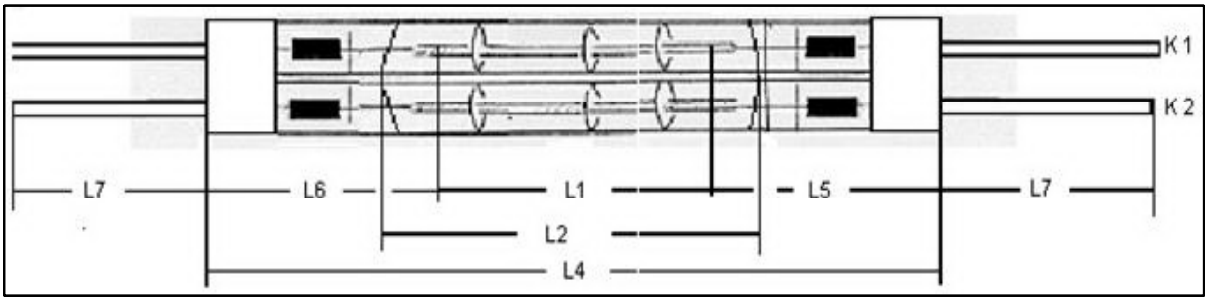
Position:

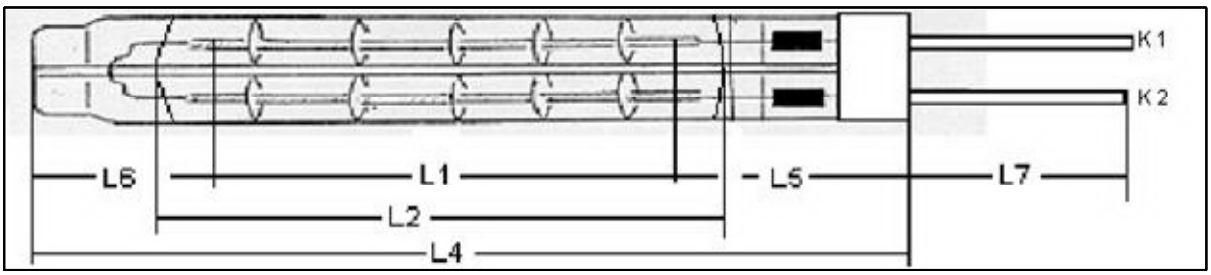
- ☐ p 5 (maximal 5° raked out of horizontal position)
- ☐ p15 (maximal 15° raked out of horizontal position)
- ☐ p45 (maximal 45° raked out of horizontal position)
- ☐ u360 (arbitrary position, vertikal permitted)

Quartz glass tube coated with reflector

- ☐ Yes
  - ☐ Gold, 180 °
  - ☐ Al_2O_3, 180 °
  - ☐ other
- ☐ No

Geometrical lamp dimensions:





Channel 1				Channel 2			
	L1	=	____ mm		L1	=	____ mm
	L2	=	____ mm		L2	=	____ mm
	L3	=	____ mm		L3	=	____ mm
	L4	=	____ mm		L4	=	____ mm
	L5	=	____ mm		L5	=	____ mm
	L6	=	____ mm		L6	=	____ mm
	L7	=	____ mm		L7	=	____ mm

L1 = Heating length
L2 = Length of reflector
L3 = Glass tube length
L4 = Total length
L5 = Length between reflector and socket end
L6 = Length between reflector and glass/ socket end
L7 = Length of wire

Special working conditions:

- ☐ strong vibrations
- ☐ operation process in vacuum
- ☐ movement during operation

Specification of wires: *Isolation:*

- ☐ Silicone, 180°C temperature resistant
- ☐ PTFE (Teflon), 260°C temperature resistant
- ☐ Kapton (Polyimid), 600°C temperature resistant

Conducting material: ☐ Nickel ☐ Copper, nickel-plated