

HEATSCOPE®

HEATSCOPE infrared heaters 3 facts about infrared radiation

- HEATSCOPE SPOT power heaters
- HEATSCOPE VISION ambient heaters
- HEATSCOPE ZERO dark heaters



Fact 1:
Infrared is NOT
red light!

Infrared radiation is invisible!

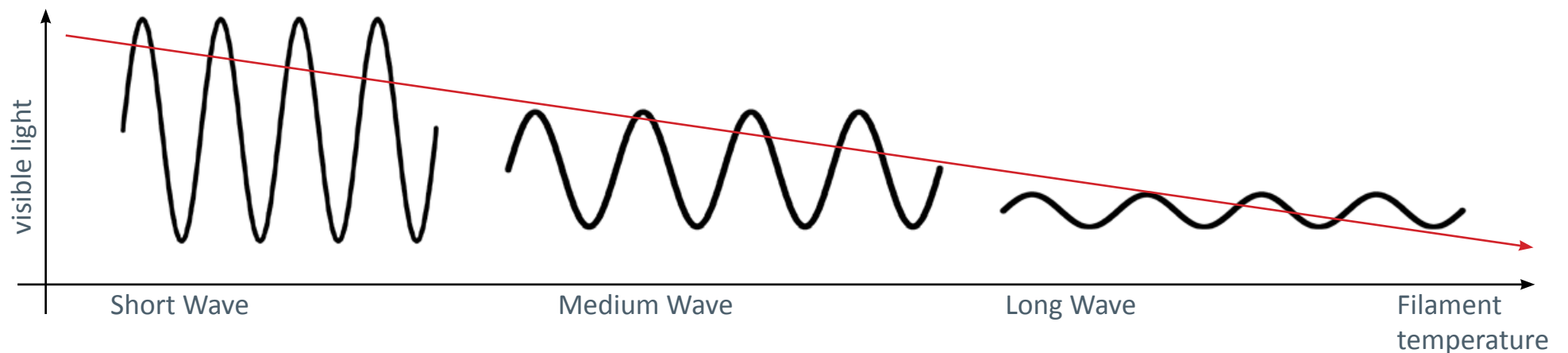
The impact of infrared radiation depends
on the length of the radiation waves
– and not on the light output.

Short, Medium, Long: 3 infrared wave lengths

1. Short Wave

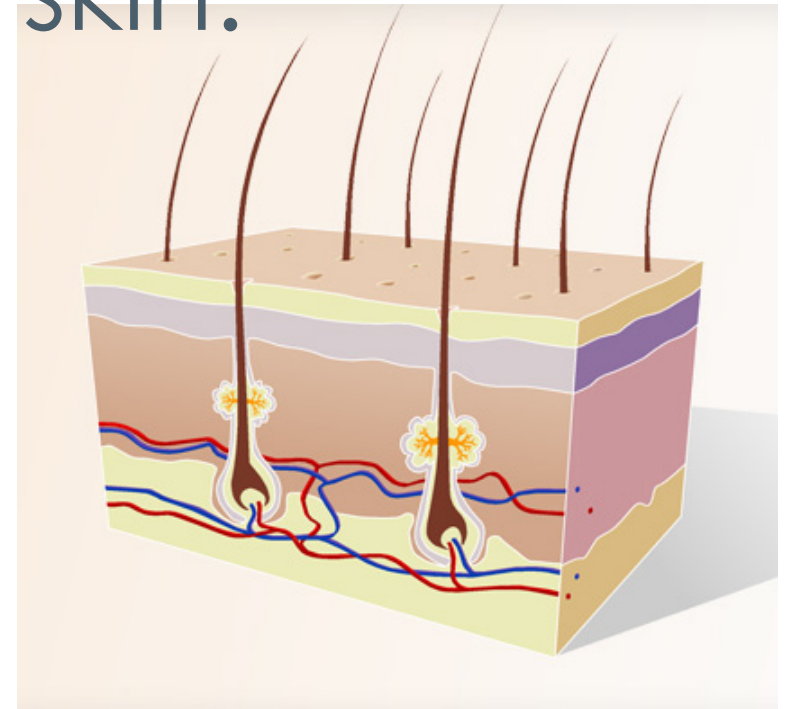
2. Medium Wave

3. Long Wave



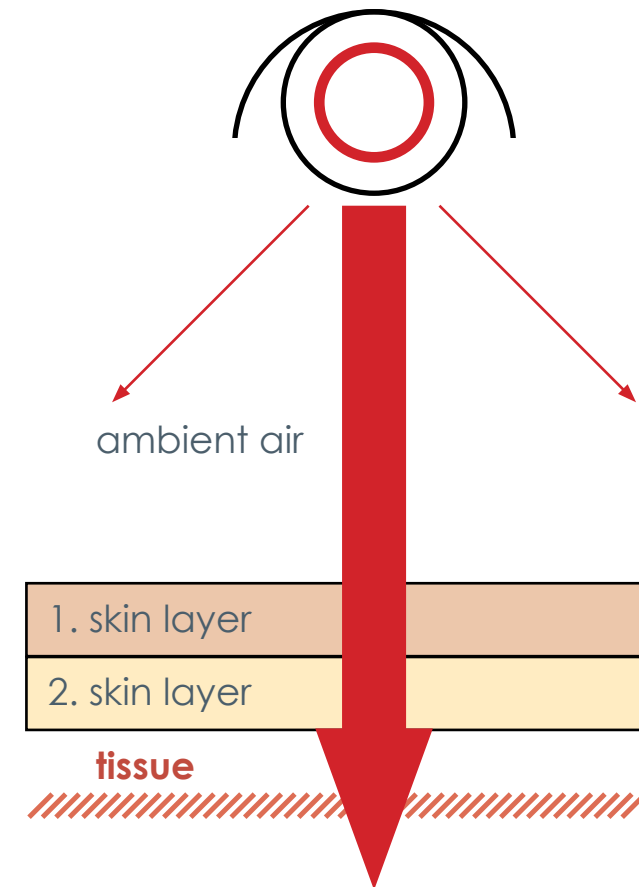
Fact 2:
Important is the
depth of the radiation
beneath the human skin.

The radiation of the single
infrared waves sink in a
different depth in the
various skin layers .



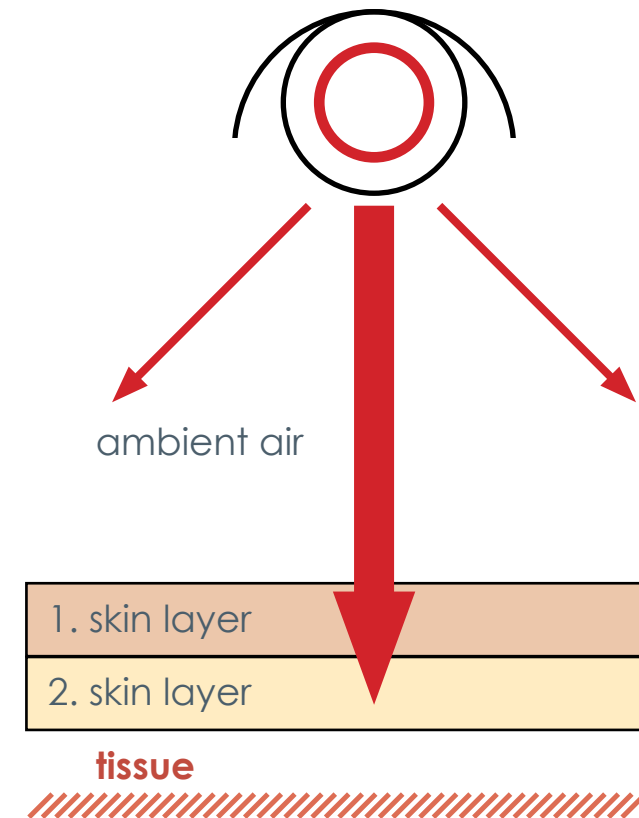
Short Wave Infrared A

- examples: all halogen red light heaters with very strong red light emission
- very deep heating
- penetration of the radiation through all skin layers to the depth of the tissue
- low feeling of heating up the surface of the skin
- deep penetration in the tissue



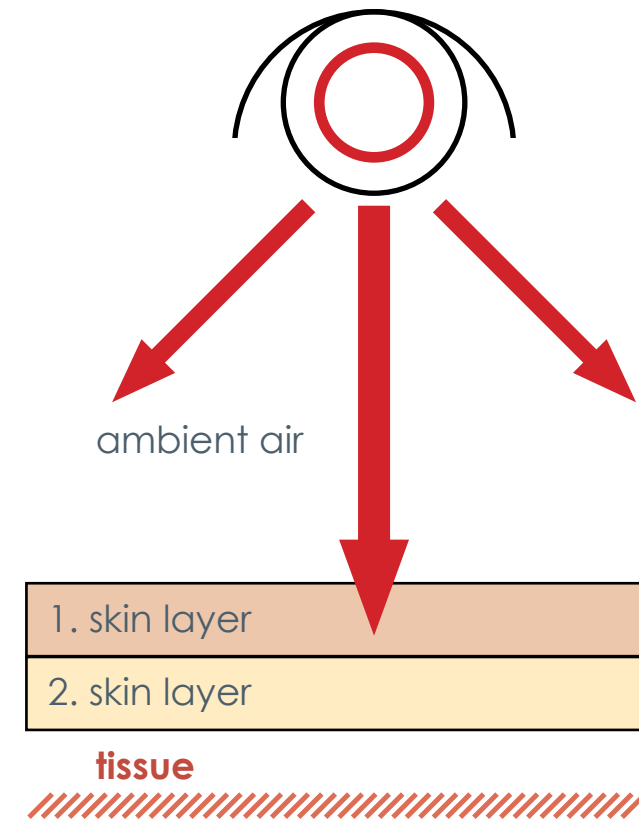
Medium Wave Infrared B

- examples: carbon ambient heaters with reduced discreet ambient light
- medium deep warming up to 2 mm
- penetration of the radiation up to the second skin layer
- heating of the ambient temperature with an ambient cozy feeling on the skin
- harmless, no penetration in the tissue



Long Wave Infrared C

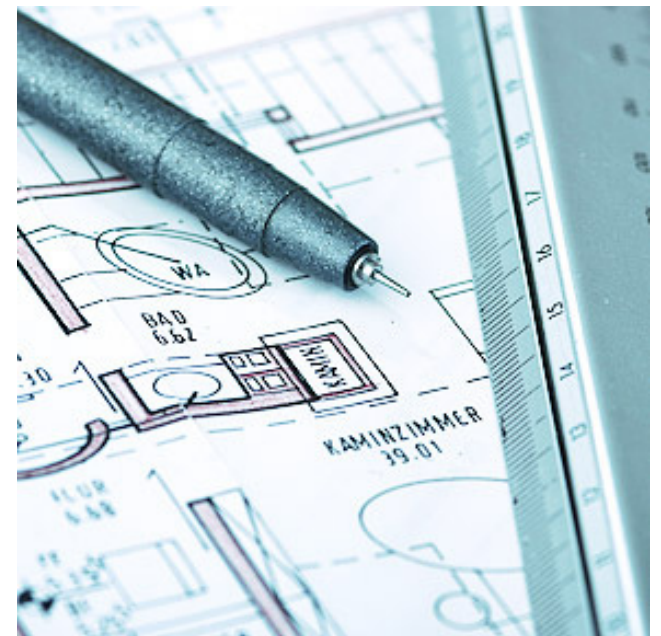
- examples: all dark heaters, with no light at all
- light heating up to 1 mm
- penetration of the radiation up to the upper, first skin layer
- high heating of the ambient temperature with a light temperature feeling on the skin
- harmless, no penetration in the tissue



Fact 3:

It's important, where the infrared radiation should be working.

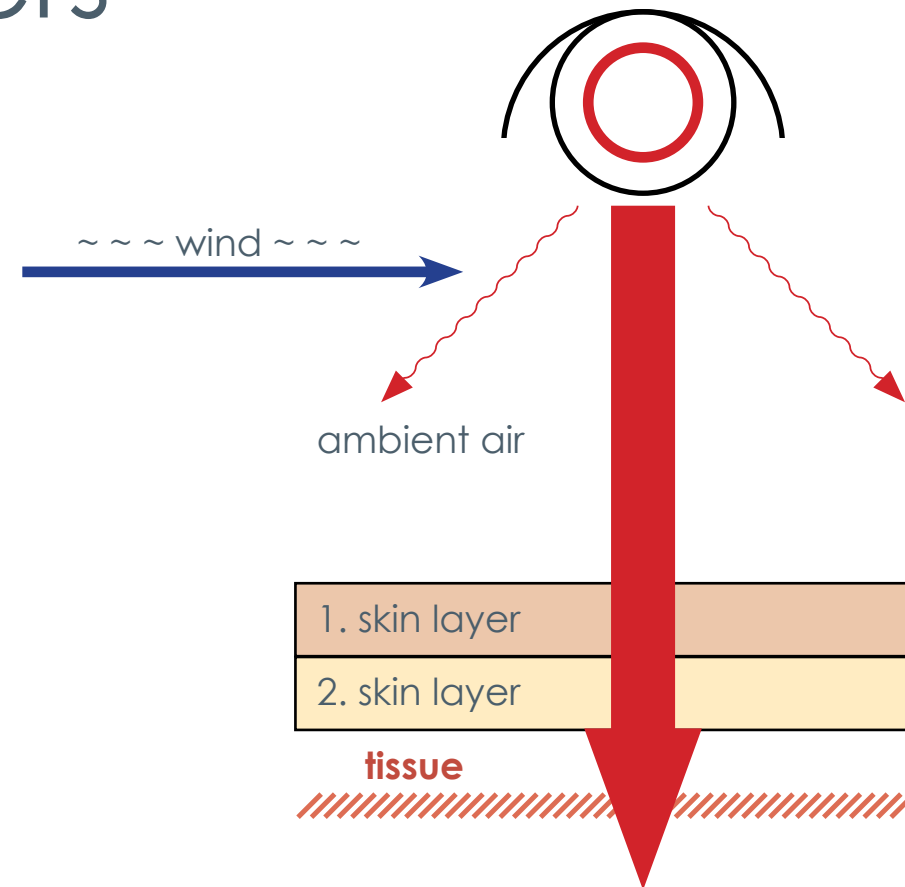
The installation situation of every single project has to be implemented in the plans from the first time.



Short Wave IR heaters

- all halogen red light heaters
- due to the very deep heating these heaters are made for almost every installation situation:

indoor, outdoor, closed, exposed, covered, windy etc.
- but: deep penetration of the tissue

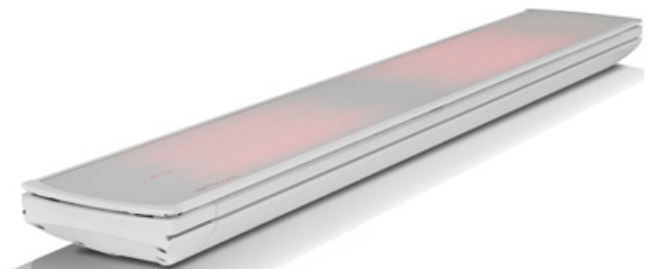
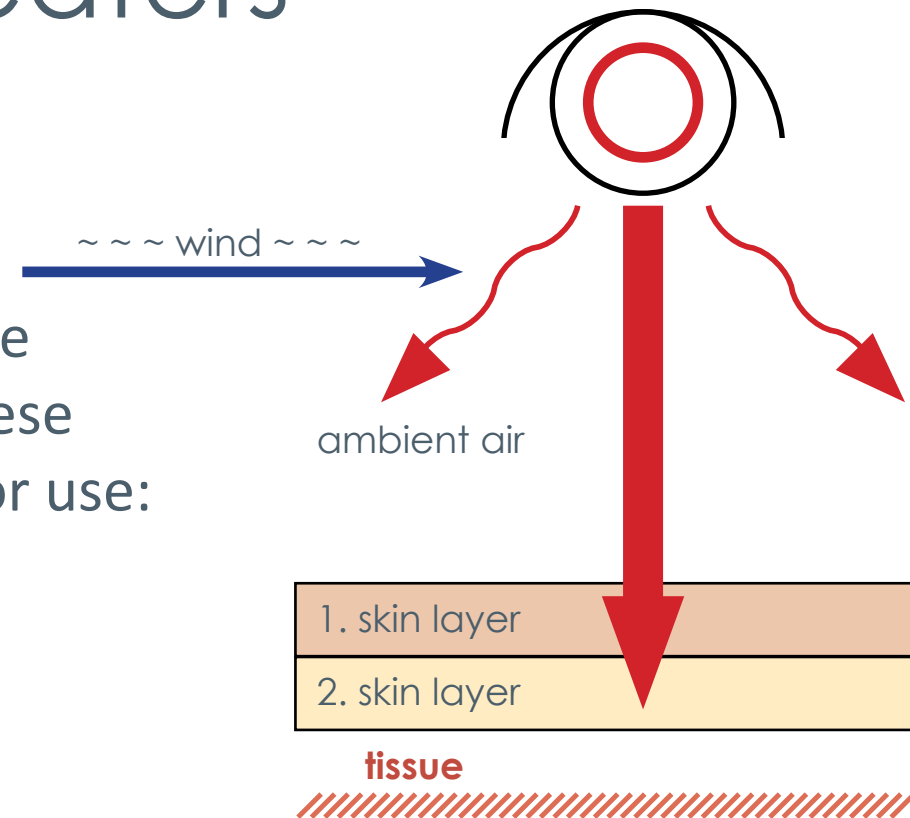


Medium Wave IR heaters

- all carbon ambiente heaters
- due to the medium deep heating and the lower heating loss to the ambient air these heaters are made for indoor and outdoor use:

indoor, outdoor, closed, exposed, covered, windy etc.

- harmless use indoor and outdoor in almost every situation

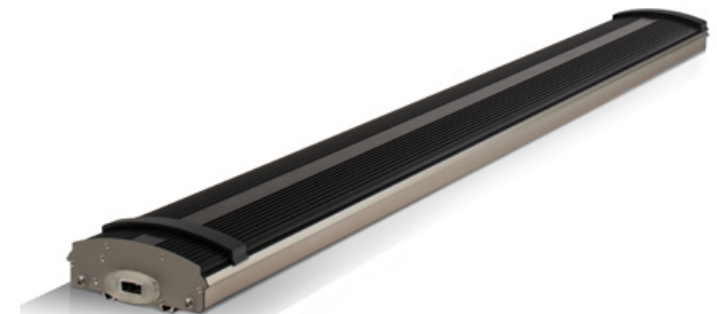
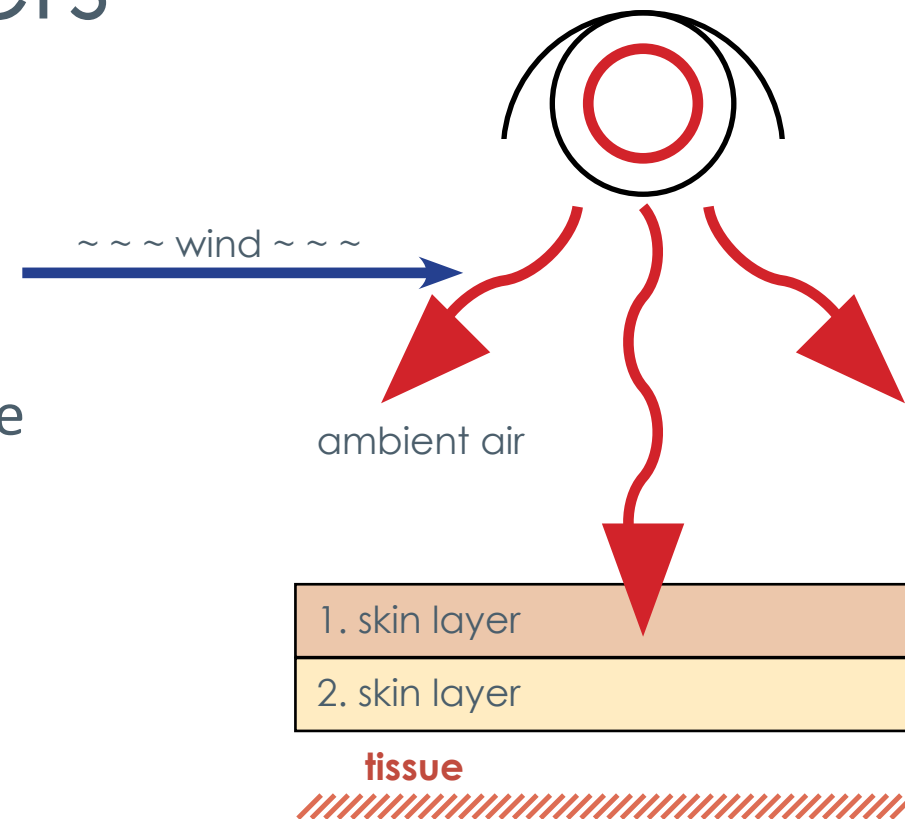


Long Wave IR heaters

- all dark heaters with any light
- due to the light heating of the skin and the high heating of the ambient air these heaters are made only for use in very wind covered, closed areas:

closed, covered, wind safe

- harmless us in very wind covered areas indoor



Questionary before starting specific projects

1. Is the installation area wind covered?
2. In which height should/can the heater be installed?
3. How big is the heating area?
4. How long should be the heating process all together?



⇒ The are basis for decision of:
IR-wave length, with or without any light output,
heater size, heater type and power.

IR heater support

If you got any questions regarding IR heating indoor and outdoor, please don't hesitate to contact us, we are happy to support you:

Christian Luge

MHS Munich Home Systems GmbH

Phone: +49 8104 64709-0

E-Mail: mail@heatscope.com

Of course as well
if you need some planning support
with a specific project or situation.

