We can present you an absolute highlight with our IOT solutions. In addition to

wireless visualization and control of thermostats and heating elements, we will

nothing left that may prevent the connection to SmartHome!

also show you what analog and digital interfaces in our products can do. There is

ASKOMA INTERFACE + IOT

(IOT = Internet of Things).

ASKOMA SOLUTIONS **ASKO**TRONIC

ASKOHEAT-F

ASKOHEAT-E

THE ASKOMA SERVICES

SUBSYSTEMS FOR ASSEMBLING AND

We develop and manufacture electrical heaters, control systems, plastic housings

and cable harnesses, especially intended for the HLKS market, in close cooperation

with our customers. Compliance with ISO standards and individual product-specific

Together with our subsidiary, ASKOMA Sdn Bhd in Malaysia, we are able to produ-

ce small, medium and large series at an attractive price-performance ratio.

PACKAGING









THE ASKOMA VISION

THE ASKOMA STRENGTHS



WINNING ALTERNATIVE ENERGY LOCALLY -STORING LOCALLY - USING AS REQUIRED

ASKOMA AG is committed to the sensible extraction, storage and use of alternative energies and energy-self-sufficient building solutions.

One of our main concerns is the decentralised storage for the provision of energy as thermostats.

sustainable future.

We offer a flexible and fast product development from A to Z based on our more than 50 years of experience, and pursue 100% quality assurance.

With our extensive product range, comprising around 2,100 products to date, we play a leading role in the development and manufacture of electric heaters and

The combination of our two production sites in Switzerland and Malaysia allows a With our products and solutions, we make a significant contribution to a clean and quick implementation, customized solutions and top quality at attractive prices.



QUALITY - FAIR - SUSTAINABLE

We maintain a cooperative and fair relationship with our customers and suppliers.

The customer determines the quality and timing of our work. In return, we want to get a fair price for our services.

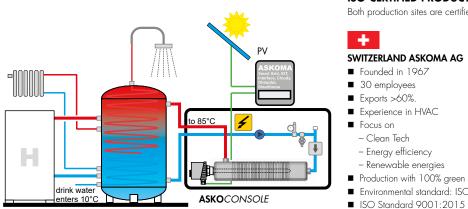
The quality of our products is enhanced by the continuous improvement cycle. To reach this target, we work according to the Kaizen philosophy.

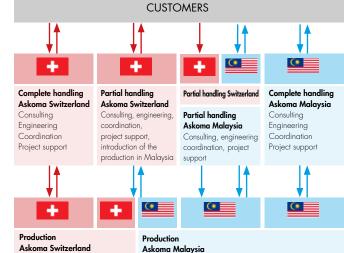
All employees live this corporate philosophy and benefit from it.

We take a holistic approach to environmental aspects - from the development to the manufacture of a product.

In the future, we want to continue to grow with our customers in a qualified manner and extend our supply so as to include new technologies and industries.

PV CURRENT / STORAGE





ISO-CERTIFIED PRODUCTION SITES

Both production sites are certified according to ISO 9001:2015.

SWITZERLAND ASKOMA AG

- Founded in 1967
- 30 employees
- Exports >60%. ■ Experience in HVAC
- Clean Tech
- Energy efficiency - Renewable energies

■ Number of products: 1800

- Production with 100% green electricity
- Number of products: 300 ■ Environmental standard: ISO 14001
 - Injection moulding, housing

Assembly work

MALAYSIA ASKOMA Sdn Bhd

■ Production of cable harnesses

■ ISO Standard 9001:2015

■ Housing development and production

■ Production partly with green electricity

■ Environmental standard: ISO 14001

■ Subsidiary since 2003 ■ 25 employees

 Special plant engineering, radiators, thermostats Accumulator test rig

BEST OF BOTH WORLDS

COMBINED CHECK OF BOILER / STORAGE TANKS WITH HEATING ELEMENTS

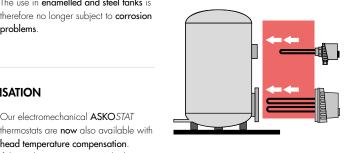
Since the introduction of the standard EN 60335-2-21, storage tanks or boilers with heating elements need to be installed as a related system. The standard prescribes ne specifications to be met in the combination of storage tank and heating elements.

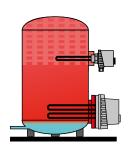
This examination is time-consuming and involves considerable costs. State testing institutes carry out this combined check.

The costs and duration are high and can only be planned to a limited extent.

Askoma is certified for the testing and performance measurement of any type of storage existing on the market.

Your storage + Heating elements = **ASKO**CERT





As part of our cooperation with storage tank manufacturers, we have installed an accredited test centre in CH-Bützberg. Tests according to EN standards can be offered and carried out at very attractive prices, both in terms of time and money.

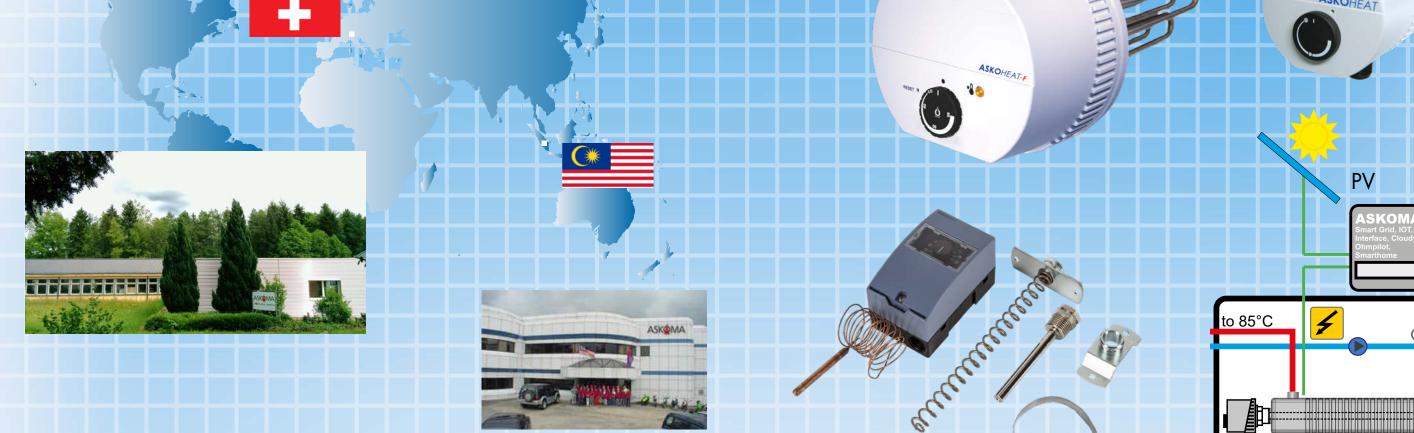
ASKOMA AG ● Industriestrasse 1 ● CH-4922 Bützberg T +41 62 958 70 80 ● F +41 62 958 70 81 nfo@askoma.com • www.askoma.com



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PRODUCT AND SERVICES OVERVIEW

TAKE PLEASURE IN HEATING



ASKOMA Sdn Bhd • 3-B, Jalan Deewani 1/1 Taman Perindustrian Dewani • MY-81100 Johor Bahru

installation of the round heating rods. he storage tank is thus electrically

nsulated from the heating element. The use in **enamelled and steel tanks** is therefore no longer subject to corrosion

ISOLATED HEATING ELEMENTS /ASKOHEAT SCREW-IN HEATERS

Our **ASKO**HEAT screw-in heaters are

now also available with **insulated**

Our electromechanical **ASKO**STAT

head temperature compensation.

f the ambient temperature is higher

value no longer needs adjustment.

The precision of the temperature

an electronic thermostat.

han the calibration value, the setting

measurement is equivalent to that of

ASKOSTAT TEMPERATURE COMPENSATION



ELECTRIC HEATER

FOR HEATING INDUSTRIAL WATER AND HEATING WATER

ASKOHEAT **5**







incl. power changeover switch

• polycarbonate RAL 7035 (light grey)

closed housing

BENEFITS

corrosion

optimal sensor position

other colours on request

low surface load: 8w/cm²

insulated design prevents storage tank

ASKOHEAT **E**

Screw-in heating heater

- temperature control/limiter temperature control/limiter with operating light with operating light (except A) optimal sensor position with integrated power contactor
- small housing polycarbonate RAL 7035 (light grey)

FEATURES/APPLICATIONS

- other colours on request
- BENEFITS
- low surface load: 8w/cm² insulated design prevents storage tank corrosion
- run-dry protection lower calcification
- housing made of impact-resistant polycarbonate
- safe E-connection due to separate terminal block

TECHNICAL DATA **TECHNICAL DATA** 109 x 109 x 117 126 x 135 x 117 300 - 750 300 - 750 1,0 - 9.0 kW 0,5 - 9,0 kW 1.0 - 3.0 kW 1.0 - 4.5 kW 1,0 - 9,0 kW 1,0 - 9,0 kW 1 - 3 kW and also 230 V~/400 V~ 400 V~ 0 - 85 °C 0 - 85 °C up to 10 bar up to 10 bar available also prewired with connection available also prewired with connection cable housing colour selectable cable housing colour selectable horizontal installation horizontal installation 11/4", 11/2", 2" 11/4", 11/2", 2" 1.50 mm 1.50 mm in the **ASKO**HEAT catalogue in the **ASKO**HEAT catalogue

HEATING – HEATING ELEMENTS

TECHNICAL DATA 186 x 186 x 120 260 - 540 180 F type A 2 - 10 kW, E 12 - 15 kW 240 FO type A 2 - 20 kW, E 12,5 - 44 kW 1 - 4 kW at 230 V~ 1 - 10 kW at 400 V~ type A 0 - 85 °C, type E 15 - 95 °C up to 10 bar pre-wired with connection cable possible housing colour on request for OEM customers horizontal installation Ø 180; 240; 280 70 mm in the **ASKO**HEAT catalogue

ASKOHEAT F/FO

FEATURES/APPLICATIONS

temperature regulator / limiter

other colours on request

low surface load: 7w/cm²

from 25kW separate switch box

polycarbonate RAL 7035 (light grey)

type A, E,

BENEFITS





ASKOHEAT **FK**

FEATURES/APPLICATIONS

stainless heating pipes and flange

separate control box as of 25kW

many types of liquid media can be

· ceramic heating elements can be replaced

suitable for drinking water through V4A

output type A 4 - 20 kW, E 25 - 45 kW

type A 0 - 85 °C, type E 15 - 95 °C

pre-wired with connection cable possible

housing colour on request for OEM customers

individually without emptying the storage tank

polycarbonate RAL 7035 (light grey)

high performance possible

optimal sensor position

other colours on request

low surface load: 2-3W / cm²

industrial use possible

delivery with flat gasket

lower calcification

very long life time

heating pipes

TECHNICAL DATA

288 x 288 x 138

500 - 1850

up to 10 bar

horizontal installation

Ø standard flange d=280mm

in the **ASKO**HEAT catalogue

400 V~

110 mm

BENEFITS



FEATURES/APPLICATIONS

for ASKOHEAT up to 7,5 kW

for heating heating water, installation in

return pipe to be guided upwards

stainless steel V2A

pipe systems.

RAL 3080 (black)

DLE 530 up to 4,5 kW

DLE 740 up to 7,5 kW

TECHNICAL DATA

530/740 x 85 x 85

output 0.5 - 7,5 kW

horizontal and vertical installation possible

inlet and outlet 1" external thread

inlet and outlet 1 1/4" external thread

in the **ASKO**HEAT catalogue

up to 6 bar

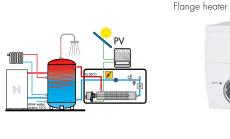
BENEFITS

two sizes

ASKOFLOW

Instantaneous water heater





ASKOCONSOLE

FEATURES/APPLICATIONS

for ASKOHEAT up to 7,5 kW

installation in the heating pipe network

can be connected to any memory

high temperature yield (up to 85 °C)

prevents heating clocking in summer

stainless steel V2A

easy installation

BENEFITS

RAI 3080 (black)

legionella protection

TECHNICAL DATA

1300 x 780 x 200

output 0.5 - 7,5 kW

output 0.5 - 4,5 kW

selectable housing colour

in the **ASKO**HEAT PV catalogue

output 1 - 7,5 kW

0 - 85 °C

up to 6 bar

installation in the heating pipe network
for drinking water and heating water

Ready-for-connection solution for PV heat

SOLUTIONS FOR PV ENERGY USE

FOR HEATING HEATING WATER AND DOMESTIC WATER



ASKOHEAT **PV**

control voltage 230 V AC

other colours on request

BENEFITS

TECHNICAL DATA

126 x 135 x 117

300 - 750

polycarbonate RAL 7035 (light grey)

Screw-in heater

FEATURES/APPLICATIONS digital outputs relay I/O serial

ASKOCONNECT

IOT-Smart-Home Smart-Grid

 modbus / TCP ZigBee analog outputs 4 - 20 mA 0 - 10 V

 low surface load: 8w/cm² compatible with Smart Grid solution • insulated design prevents storage tank • 3 to 7 levels controllable by analog and digital outputs

• also available prewired with connection cable

BENEFITS

AGENDA

Housing	g dimensions HxWxD in mm
Heating	rod lengths in mm
Output	classes in kW
Outputs	classes at 230 V~
Outputs	classes at 400 V~
Supply	voltage
Temper	ature setting range
Workin	g pressure
Wiring	
Housing	g colour
Type of	installation
Uptake	
Unheate	ed zone
More in	nfo

FLANGE-ATTACHMENT INSERT CHECK **ACCESSORIES**

FEATURES/APPLICATIONS

spring clamp terminals (max. 10mm²)

type 1 + 2: 2x M20 + 2x M25

type 3 + 4: 2x M20 + 4x M25

type 1: 12 - 15 kW

type 3: 25 - 35 kW

type 4: 40 - 45 kW

protection class IP 66

RAL 7035 (lichtgrau)

TECHNICAL DATA

280 x 250 x 155

output 12 - 45 kW

ready-wired connection box

BENEFITS

type 2: 18 kW

STORAGE TANK CERTIFICATION FOR HEATING OF AIR

HEATING INSERT

ASKOHEAT Air

THERMOSTAT ACCESSORIES

ASKOTUBE

HOUSING THERMOSTATS

ASKOSTAT

Electromechanical thermostats

FEATURES/APPLICATIONS

polycarbonate up to 120 °C

for pipe mounting

for duct mounting

polyamide reinforced up to 120 °C

FOR REGULATING THE TEMPERATURE OF HEATING, DOMESTIC HOT WATER, VENTILATION AND STACK

ASKOTRONIC

Electronic thermostats 2-point

FEATURES/APPLICATIONS

polycarbonate up to 120°C

housing colour selectable

for pipe mounting

for duct mounting

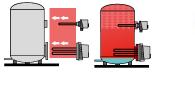
for wall mounting

RAI 5014

polyamide reinforced up to 120°C

ASKOBOX **ASKO**CERT In accordance with EN 60335-2-21 Switchbox with power contactor





FEATURES/APPLICATIONS

for screw-in and flange heaters

thermal behaviour

BENEFITS

quick check

clear results

optimization aid

clear documentation

SERVICE

all storage sizes available

standard EN 60335-2-21 is fulfilled

only 6 storages of the assortment

cost-efficient examination

test duration 3 - 4 weeks

preparation of a test report

fast certification according to EN 60335-2-21







- brass • inner diameter: LW7 7 mm, LW9 9 mm, • for wall mounting
- 1/2 "male thread RG
- Ms up to 10 bar / V4A up to 40 bar Ms to 130 °C / V4A to 250 °C

large range of immersion tubes in stock

closing function

AGENDA TECHNICAL DATA

Dimensions LxWxH in mm 110 x 67 x 68 / 110 x 134 x 68

 small design no power supply required

BENEFITS opening function closing function

TECHNICAL DATA

110 x 67 x 68 / 110 x 134 x 68

ASKOTRONIC

FEATURES/APPLICATIONS

polycarbonate up to 120°C

housing colour selectable

for pipe mounting

for wall mounting

for duct mounting

RAI 5014

BENEFITS

polyamide reinforced up to 120°C

ASKOSTATrod



FEATURES/APPLICATIONS

• can be used for flange heaters

 can be installed above the head RAL 5014

BENEFITS

 closing function very small design

 no power supply required • variable switching hysteresis: 0,5 - 15.5 K • mixer running time: adjustable 30 / 60 sec. • replacement product for old rod thermostats

for older boilers

TECHNICAL DATA

46 x 52 x 44 5 - 85 °C 165/261/442

Screw-in heaters including screw-in unit

output 0.5 - 7,5 kW output 0.5 - 4,5 kW output 0.5 - 7,5 kW 0 - 85 °C up to 10 bar also available prewired with connection cable selectable housing colour 11/4", 11/2", 2" 1.50 mm in the **ASKO**HEAT PV catalogue

BENEFITS

easy installation

individually realizable

Temperature range heating -10 to 230 °C Temperature range ventilation -10 to 230 °C Temperature range fireplace 40 to 200 °C Immersion sensor temperature resistant up to 750 °C Immersion probe lengths 100 - 600 Nominal voltage range 40 -250 V~ Life of controller min. 100.000 Lifetime Limiter min. 15.000 Ambient temperature housing -25 to 70 °C TRONIC catalogue

100 - 600 10 - 250 V~ min. 100.000 min 1.5 000 -25 bis 70 °C 0.1 - 8 A (4.0 A) 12 - 250 V~ IP40 & IP54

-20 to 190 °C 0-60/60-120°C 100 - 600 -25 to 70 °C 0.05 - 4.0 A (4.0 A) 24 - 250 V~ IP40 & IP54 in the **ASKO**STAT/TRONIC catalogue in the **ASKO**STAT/TRONIC catalogue

min. 100.000 min. 30 up to 105 °C 20 A 230 V~ in the **ASKO**STAT/TRONIC catalogue

Wall mounting

SOLUTIONS FOR PV ENERGY USE

ACCESSORIES

AR HEATING ELEME

Process water/stainless steel sleeve Heating water/brass sleeve

ACCESSORIES

Breaking capacity 0.5 - 16 A (2.5 A) Switching voltage 40 - 250 V~ IP degree of protection IP40 & IP66 Further information in the **ASKO**STAT/ in the **ASKO**STAT/TRONIC catalogue

Pipe mounting Thermo well assembly ONTROL - THERMOSTATS

Air duct

stainless steel

LW15 15 mm

BENEFITS

 RAI 5014 housing colour selectable temperature compensation selectable

> BENEFITS opening function

> > small design

 proportional range: adjustable 10 K / 20 K small design

TECHNICAL DATA

110 x 67 x 68

opening function

closing function