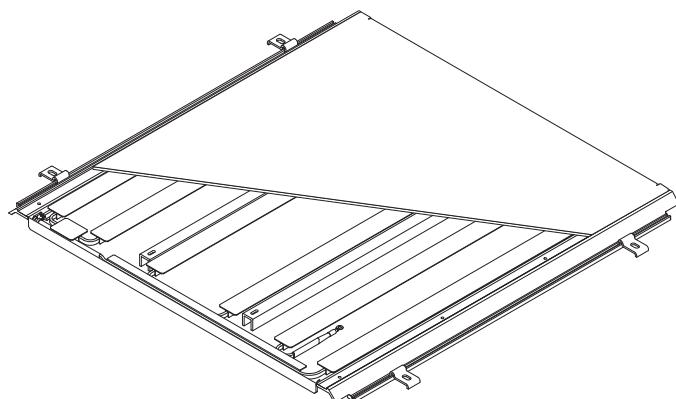


Anti-icing system for offshore walkways and deck surfaces

PRODUCT OVERVIEW



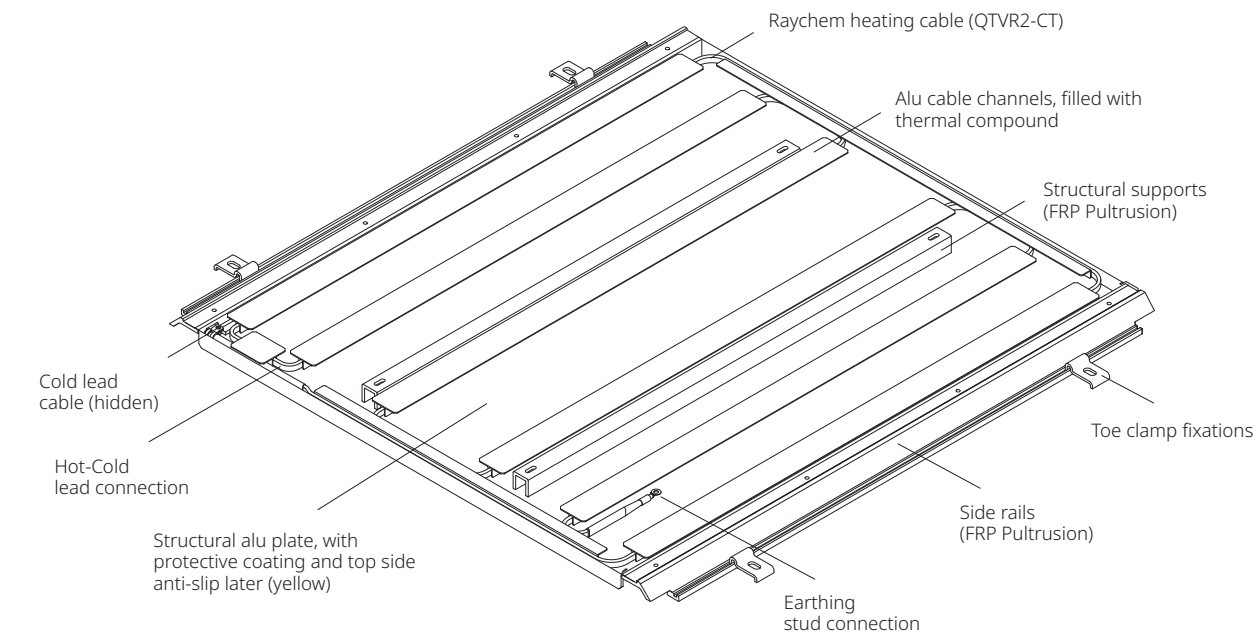
The Raychem ArcticStep is a modular panel system for anti-icing or de-icing of walkways and deck surfaces on offshore platforms and vessels. It is designed for use in hazardous area installations in oil & gas and marine industries.

The system consists of a robust metallic top plate, an embedded Raychem self-regulating heating cable, fiber reinforced polymer supports, protective anti-slip coating, and adjustable fixations.

This hybrid light weight construction allows for fast and easy installation, minimizes heat loss and energy consumption, provides galvanic and thermal insulation from the deck surface, and ensures long life operation in harsh corrosive environments. Integrated cable channels protect the power supply cables from any mechanical damage.

PRODUCT SPECIFICATIONS

Surface type	Offshore and onshore structures, on top of steel decks, grating (special fasteners and wind barrier are required), painted or unpainted.
Chemical resistance	Designed to withstand salt and corrosive atmosphere, sea water, cleaning solvents, oil. Protective Primer coating (black) + top layer antislip coating (yellow, RAL 1021)
Supply voltage	230 Vac
Impact load	250 kg/m ²
Materials of construction	Top plate: Aluminium (4 mm) Pultrusions + supports: fiber reinforced polymer (FRP)
Cold lead connection	Power cable in oil resistant TPE/PUR, size 1.5 mm ² , standard length: 10 m. Approved for electrical installation in offshore and marine



Dimensions (*)

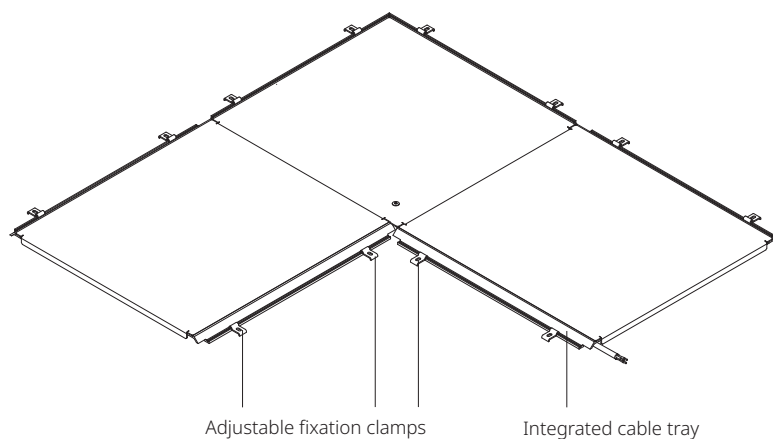
3 Types	Straight	Straight long	Corner
Size (m)	1.0 * 1.0	2.0 * 1.0	1.0 * 1.0
Height (mm)	35	35	35
Weight (kg)	<20	<40	<20

Thermal output rating (*)

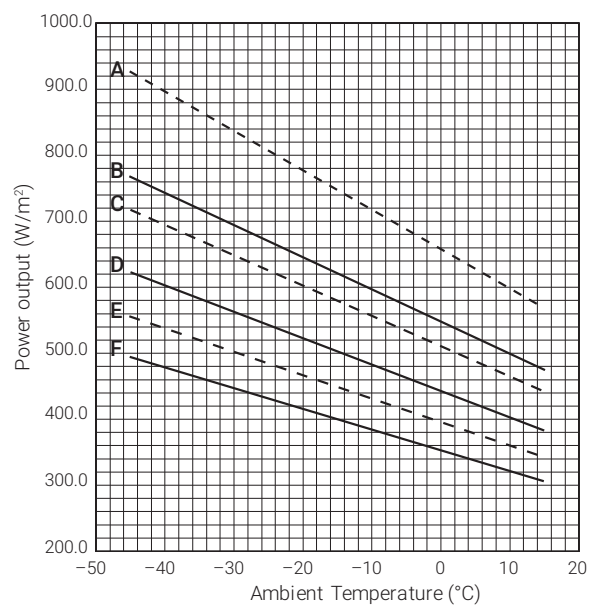
3 Versions	RAS-350	RAS-500	RAS-650
Minimum power output @ -20°C (W/m²)	350	500	650

(*) Customized sizes and power outputs available, up to 1800 W/m². Contact your Chemelex sales representative.

Size customization possible



Raychem ArcticStep nominal power output at 230 Vac (W/m²)



A = RAS 650 - Light wind

D = RAS 500 - No wind

B = RAS 650 - No wind

E = RAS 350 - Light wind

C = RAS 500 - Light wind

F = RAS 350 - No wind

Installation instruction

Complete panel wiring information and schematics are provided with the product. All electrical installations must be carried out by an approved electrician in compliance with local electrical requirements and norms.

Maximum installed surface area (in m²) per circuit based on type 'C' circuit breakers

Electrical protection sizing	Start-up temperature	RAS-350	RAS-500	RAS-650
16 A	-20°C	7	5	3
	-10°C	8	5	3
	+5°C	9	6	4
25 A	-20°C	12	8	6
	-10°C	12	9	6
	+5°C	14	11	7
32 A	-20°C	15	11	8
	-10°C	16	12	8
	+5°C	18	14	10

The above numbers are for estimation only. For more information contact your local Chemelex sales representative. Chemelex requires the use of a 30 mA residual current device to provide maximum safety and protection from fire. Where design results in higher leakage current, the preferred trip level for adjustable devices is 30 mA above any inherent capacitive leakage characteristic of the heater as specified by the trace heater supplier or alternatively, the next common available trip level for non-adjustable devices, with a maximum of 300 mA. All safety aspects need to be proven.

APPROVALS

For use in ordinary and hazardous area Zone 1 and Zone 2 (Gas), Zone 21 and Zone 22 (Dust)

Temperature classification

T4

Product certification

ArcticStep:



BTV and QTVR heating system:



More details about product certification, approvals and conditions of safe use are available in the installation manual at www.chemelex.com.

ORDERING INFORMATION

Name	Description	PN code
RAS-350-S-1.0-10	ArcticStep, 350 W/m ² , Straight, 1 m long	RAS-00001
RAS-350-S-2.0-10	ArcticStep, 350 W/m ² , Straight, 2 m long	RAS-00002
RAS-350-C-1.0-10	ArcticStep, 350 W/m ² , Corner, 1 m long	RAS-00003
RAS-500-S-1.0-10	ArcticStep, 500 W/m ² , Straight, 1 m long	RAS-00004
RAS-500-S-2.0-10	ArcticStep, 500 W/m ² , Straight, 2 m long	RAS-00005
RAS-500-C-1.0-10	ArcticStep, 500 W/m ² , Corner, 1 m long	RAS-00006
RAS-650-S-1.0-10	ArcticStep, 650 W/m ² , Straight, 1 m long	RAS-00007
RAS-650-S-2.0-10	ArcticStep, 650 W/m ² , Straight, 2 m long	RAS-00008
RAS-650-C-1.0-10	ArcticStep, 650 W/m ² , Corner, 1 m long	RAS-00009

RAS-xxx-Y-x.x-yy: RAS = Raychem ArcticStep / xxx = Power W/m² / Y: S = straight, C = corner / x.x-yy = length panel-length cold lead cable

Accessories

Name	PN code
RAS-TOE.CLAMP-15PC	RAS-ACC0001
RAS-CABLE.COVER-2M	RAS-ACC0002
RAS-GRAT.MAT-10M	RAS-ACC0003

North America

Tel +1 800 545 6258
info@chemelex.com

Latin America

Tel +1 713 868 4800
info@chemelex.com

Europe, Middle East, Africa, India

Tel +32 16 213 511
Fax +32 16 213 604
info@chemelex.com

Asia Pacific

Tel +86 21 2412 1688
infoAPAC@chemelex.com

chemelex
excellence is everything

Raychem Tracer Pyrotenax Nuheat