

7.1

PANRAD RADIANT TUBES

With gas burner G20 - G25 - G30 - G31

PANRAD radiant tubes, ON/OFF

IMAGE	CODE	DESCRIPTION	POWER kW
	FRA2-3	Lenght 3 m weight 53 kg	15
	FRA2	Lenght 6 m weight 83 kg	20
	FRA3	Lenght 6 m weight 83 kg	30
	FRA4.1	Lenght 6 m weight 83 kg	35
	FRA4	Lenght 6 m weight 83 kg	40
	FRA5	Lenght 6 m weight 83 kg	50
	FRB3	Lenght 9 m weight 118 kg with insulation and 7-sided reflecting sheet	30
	FRB4	Lenght 9 m weight 118 kg	40
	FRB4.1	Lenght 9 m weight 118 kg	45
	FRB5	Lenght 9 m weight 118 kg	50
	FRC4	Lenght 12 m weight 148 kg	40
	FRC5	Lenght 12 m weight 148 kg	50
	FRB5.1	Lenght 9 m weight 119 kg	55
	FRC5.1	Lenght 12 m weight 150 kg	55

PANRAD radiant tubes, 2 STAGES

IMAGE	CODE	DESCRIPTION	POWER kW
	FRA2S2	Lenght 6 m weight 53 kg	10 - 20
	FRA3S2	Lenght 6 m weight 83 kg	20 - 30
	FRA4.1S2	Lenght 6 m weight 83 kg	30 - 35
	FRA4S2	Lenght 6 m weight 83 kg	30 - 40
	FRA5S2	Lenght 6 m weight 83 kg	40 - 50
	FRB4S2	Lenght 9 m weight 118 kg	30 - 40
	FRB4.1S2	Lenght 9 m weight 118 kg	30 - 45
	FRB5S2	Lenght 9 m weight 118 kg	30 - 50
	FRC5S2	Lenght 12 m weight 148 kg	40 - 50
	FRB5.1S2	Lenght 9 m weight 119 kg	40-55
	FRC5.1S2	Lenght 12 m weight 150 kg	40-55

7.2

PANRAD SUPPLEMENTS

Supplement for Panrad radiant tubes delivered in 3 m pieces

IMAGE	CODE	DESCRIPTION	
	T601S1	supplement 3 MT for Panrad 6 MT <50kW	apiece
	T601S3	supplement 3 MT for Panrad 9 MT <50kW	apiece
	T601S5	supplement 3 MT for Panrad 12 MT <50kW - FRC4	apiece
	T601S6	supplement 3 MT for Panrad 24 MT <50kW - FRC5	apiece
	T601S1.2I	supplement 3 MT for Panrad 6 MT >50kW	apiece
	T601S10I	supplement 3 MT for Panrad 15 MT >50kW	apiece
	T601S11I	supplement 3 MT for Panrad 18 MT >=50kW	apiece
	T601S13I	supplement 3 MT for Panrad 24 MT >= 50kW	apiece
	T601S2	supplement 3 MT for Panrad 9 MT 40/45 kW	apiece
	T601S4I	supplement 3 MT for Panrad 9 MT >50kW	apiece
	T601S6I	supplement stainless steel 3 MT for Panrad 12 MT >50kW - RC5	apiece
	T601S7	supplement 3 MT for Panrad 12 MT <50kW	apiece
	T601S8	supplement 3 MT for Panrad 18 MT <50kW	apiece

TK004

Flanged kit for PANRAD sealed burner intake; Flange kit sold separately

apiece

T954

Stainless steel roof terminal for intake/exhaust fumes

apiece

T953

Stainless steel wall terminal for intake/exhaust fumes

apiece

1062250

AISI 304 stainless steel U shaped bend 90° ø 80 mm

apiece

1062850

Stainless steel sectional U bend 90° with gasket

apiece

1063159

Stainless steel narrow band ø 80 mm

apiece

1062300

AISI 304 Stainless steel Pipe ø 80 mm 1 m. long

apiece

1038103

AISI 304 Stainless steel Pipe ø 80 mm with gasket, lenght 0,20 m

apiece

1038104

AISI 304 Stainless steel Pipe ø 80 mm with gasket, lenght 0,45 m

apiece

1038105

AISI 304 Stainless steel Pipe ø 80 mm with gasket, lenght 0,95 m

apiece

1030203

AISI 316 Stainless steel flexible Pipe ø 80 mm (smooth internal)

flexible pipe connection / chimney flashing

apiece

1066213

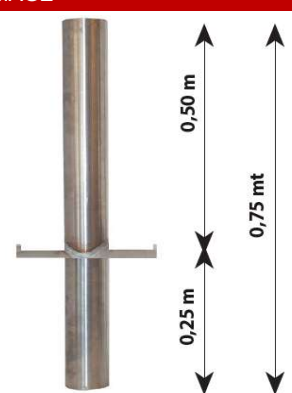
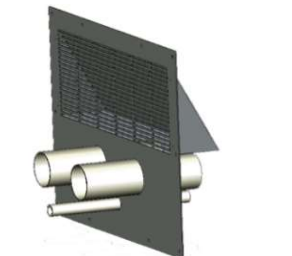
Stainless steel flexible pipe Connection (flexible/flashing)

burner connection / flexible pipe

apiece

1066208

Stainless steel flexible pipe Connection with gasket (burner/flex) with gasket

IMAGE	CODE	DESCRIPTION	
	T870	Flashing for intake/exhaust fumes chimney used for roofings with frets	apiece
	T871	Flashing for intake/exhaust fumes chimney used for roofing with frets10%	apiece
	T872	Flashing for intake/exhaust fumes chimney used for roofing with frets15%	apiece
	T873	Flashing for intake/exhaust fumes chimney used for roofing with frets20%	apiece
	T874	Flashing for intake/exhaust fumes chimney used for roofing with frets25%	apiece
	T875	Flashing for intake/exhaust fumes chimney used for roofing with frets>25%	apiece
	T898	Flashing for intake/exhaust fumes chimney used for roofing with frets(drawing)	apiece
	T891	Flashing for intake/exhaust fumes chimney used for flat sheathing sheet roof,	apiece
	T885	Flashing for intake/exhaust fumes chimney used for sheathing sheet roof. 10%	apiece
	T886	Flashing for intake/exhaust fumes chimney used for sheathing sheet roof. 15%	apiece
	T887	Flashing for intake/exhaust fumes chimney used for sheathing sheet roof. 20%	apiece
	T888	Flashing for intake/exhaust fumes chimney used for sheathing sheet roof. 25%	apiece
	T896	Flashing for intake/exhaust fumes chimney used for sheathing sheet roofings	apiece
	T892	Flashing for i./e. fumes chimney used for flat asbestos cement roofings	apiece
	T880	Flashing for i./e. fumes chimney used for asbestos cement roofings 10%	apiece
	T881	Flashing for i./e. fumes chimney used for asbestos cement roofings 15%	apiece
	T882	Flashing for i./e. fumes chimney used for asbestos cement roofings 20%	apiece
	T883	Flashing for i./e. fumes chimney used for asbestos cement roofings 25%	apiece
	T884	Flashing for i./e. fumes chimney used for asbestos cement roofings >25%	apiece
	T900	Stainless steel shed flashing for intake/exhaust chimney ready for gas connectoin	apiece
	T903	Stainless steel flashing for intake/exhaust chimney with grill for air intake	apiece
		Please specify in the order the gradient of the flashing because this will be welded to the stainless steel pipe according tothis gradient.	

TK008

Concentric chimney kit for radiant tubes PANRAD

apiece

1038111

Linear element pipe-atrium Inox/inox L=1000 mm d.80x130

apiece

1063035

"T" connection 90° pipe-atrium Inox/inox d.80x130

apiece

1063221

Stopper 2 discharges pipe-atrium inox/inox d.80x130

apiece

1063169

Stainless steel narrow band ø 130 mm

apiece

1062104

Dispersion turret d.80x130 inox/inox

apiece

1062876

90° fixed bend "grip" d.80

apiece

1038107

AISI 304 Stainless steel Pipe ø 130 mm with gasket, lenght 0,20 m

apiece

1038108

AISI 304 Stainless steel Pipe ø 130 mm with gasket, lenght 0,45 m

apiece

1038109

AISI 304 Stainless steel Pipe ø 130 mm with gasket, lenght 0,95 m

apiece

1038103

AISI 304 Stainless steel Pipe ø 80 mm with gasket, lenght 0,20 m

apiece

1038104

AISI 304 Stainless steel Pipe ø 80 mm with gasket, lenght 0,45 m

apiece

1038105

AISI 304 Stainless steel Pipe ø 80 mm with gasket, lenght 0,95 m

apiece

1030203

Stainless steel flexible pipe Connection (flexible/flashing)

per meter

1066213

Stainless steel flexible pipe Connection (flexible/flashing)

apiece

1066208

Stainless steel flexible pipe Connection with gasket (burner/flex)

apiece

1062850

Stainless steel sectional U bend 90° with gasket

apiece

IMAGE	CODE	DESCRIPTION	
	T800	Zinc plated small angular to fix the Panrad	apiece
	T801	Zinc plated big angular to fix the Panrad	apiece
	1025020	Ø 4 mm DIN chain	per meter
	1027000	Ø 5/6 mm "S" hook	apiece
	1144020	Black siliconic paint (ca. 17 gr. for linear meter)	per kg
	1143010	Siliconic varnish thinner (120 gr. per each kg. of varnish)	per Liter
	T997	REI120 Panel	apiece
	T998	Wall REI120 Panel	apiece
	TK005	"L" bracket for Panrad wall installation	apiece
	FCPI(00)	Stainless steel burner protection covering for burner installation outdoors	apiece
	TKPS3	Switch/plug kit ILME 3 poles for burner installation outdoors	apiece
	TKPS4	Switch/plug kit ILME 4 poles for burner installation outdoors	apiece
	TPM00002	Hole cover plate for outdoor panrad installation	apiece
	T530	Heavy bracket (add one for each panrad installed outdoors)	apiece

7.7

PANRAD COMBUSTION UNITS AND EXHAUST F

Combustion units ON/OFF

IMAGE	CODE	DESCRIPTION	POWER
	BFRA2-3	Tubes length 3 m, weight 17kg	15
	BFRA2	Tubes length 6 m, weight 17kg	20
	BFRA3	Tubes length 6 m, weight 17kg	30
	BFRA4.1	Tubes length 6 m, weight 17kg	35
	BFRA4	Tubes length 6 m, weight 17kg	40
	BFRB3	Tubes length 9 m, weight 17kg	30
	BFRB4	Tubes length 9 m, weight 17kg	40
	BFRB4.1	Tubes length 9 m, weight 17kg	45
	BFRC4	Tubes length 12 m, weight 17kg	40
	BFRA5	Tubes length 6 m, weight 17kg	50
	BFRB5	Tubes length 9 m, weight 17kg	50
	BFRC5	Tubes length 12 m, weight 17kg	50
	BFRB5.1	Tubes length 9 m, weight 17kg	55
	BFRC5.1	Tubes length 9 m, weight 17kg	55

Combustion units 2 STAGES

IMAGE	CODE	DESCRIPTION	POWER
	BFRA2S2	Tubes length 6 m, weight 17kg	10 - 20
	BFRA3S2	Tubes length 6 m, weight 17kg	20 - 30
	BFRA4.1S2	Tubes length 6 m, weight 17kg	30 - 35
	BFRA4S2	Tubes length 6 m, weight 17kg	30 - 40
	BFRB4S2	Tubes length 9 m, weight 17kg	30 - 40
	BFRB4.1S2	Tubes length 9 m, weight 17kg	30 - 45
	BFRA5S2	Tubes length 6 m, weight 17kg	40-50
	BFRB5S2	Tubes length 9 m, weight 17kg	40-50
	BFRC5S2	Tubes length 12 m, weight 17kg	40 - 50
	BFRB5.1S2	Tubes length 9 m, weight 17kg	40-55
	BFRC5.1S2	Tubes length 9 m, weight 17kg	40-55



CODE	DESCRIPTION	
T700	3 m alluminium 3 faces reflecting sheet for 2 pipes	apiece
T704	Locking element for alluminium 3 faces reflecting sheet for 2 pipes	apiece
T703l	3 m stainless steel 3 faces reflecting sheet for 2 pipes	apiece
T7043	Locking element for stainless steel 3 faces reflecting sheet for 2 pipes	apiece
T707	3 m alluminium 7 faces reflecting sheet for 2 pipes	apiece
T7042	Locking element for alluminium 7 faces reflecting sheet for 2 pipes	apiece
T710	High efficiency 3 m alluminium reflecting sheet for 2 pipes	apiece
T7041	Locking element high efficiency 3 m allum. reflecting sheet for 2 pipes	apiece
T706	3 m wall reflecting sheet	apiece
T774	Upper isolation kit for modules 3 m long*.	apiece
T770	Upper isolation kit for modules 6 m long*.	apiece
T771	Upper isolation kit for modules 9 m long*.	apiece
T772	Upper isolation kit for modules 12 m long*.	apiece
* Always use the 7 faces reflecting sheet in case of upper insulation kit.		
TPT	Lower pretection grid for radiant tubes 3 m long	apiece

CODE	DESCRIPTION	
T601AL	Flanged stainless pipe Ø 89 mm 2,920 m long near the burner	apiece
T600AL	Flanged stainless pipe Ø 89 mm 5,840 m long near the burner	apiece
T605L	Flanged stainless pipe Ø 89 mm 2,920 m long for part with ex.bend	apiece
T606L	Flanged stainless pipe Ø 89 mm 5,707 m long for part with ex.bend	apiece

7.10 NICKEL-COPPER STEEL HEAT EXCHANGER PIPE

CODE	DESCRIPTION	
T601	Flanged nickel-copper steel pipe ø 89 mm 3 mt long	apiece
T600	Flanged nickel-copper steel pipe ø 89 mm 6 mt long	apiece
T605	Steel pipe Ø 89 mm 2,787 m long for part with expansion bend	apiece
T606	Steel pipe Ø 89 mm 5,707 m long for part with expansion bend	apiece

7.11 STAINLESS STEEL HEAT EXCHANGER PIPES AI

CODE	DESCRIPTION	
T601I	Tubo acciaio Ø 89 mm 2,920 m flangia 5 fori	al pezzo
T600I	Tubo acciaio Ø 89 mm 5,840 m flangia 5 fori	al pezzo

7.12 EXAMPLES OF VOLUMES NECESSARY FOR THE TRANSPORT OF MATERIAL [PANRAD]

FOR RADIANT TUBES PANRAD

3 METER WOODEN BOXES FOR SHIPPING PANRAD PARABLES IN 3 METER SHEETS

CODE	DESCRIPTION	
1248009	wooden box S (303 x 69 x 30 cm)	apiece
1248010	wooden box M (303 x 69 x 55 cm)	apiece
1248011	wooden box L (303 x 69 x 100 cm)	apiece



Combustion group packing:

The combustion groups are packed on 120 x 120 cm pallet.



Packaging tubes:

The tubes are packed on special wooden frames so they can be stacked one on top the other figure on the side.

7.12 GAS BURNER

PANRAD LINE ON/OFF			
IMAGE	CODE	DESCRIPTION	POWER kW
	FRLA3	Lenght 12 m weight 108 kg	30
	FRLA4.1	Lenght 12 m weight 108 kg	35
	FRLA4	Lenght 12 m weight 108 kg	40
	FRLB3	Lenght 18 m weight 147 kg	30
	FRLB4	Lenght 18 m weight 147 kg	40
	FRLB4.1	Lenght 18 m weight 147 kg	45

PANRAD LINE 2 STAGES			
IMAGE	CODE	DESCRIPTION	POWER kW
	FRLA3S2	Lenght 12 m weight 108 kg	20 - 30
	FRLA4.1S2	Lenght 12 m weight 108 kg	30 - 35
	FRLA4S2	Lenght 12 m weight 108 kg	30 - 40
	FRLB4S2	Lenght 18 m weight 147 kg	30 - 40
	FRLB4.1S2	Lenght 18 m weight 147 kg	30 - 45

Important: For the fittings refer to the Panrad radiant tubes section.

7.13 ELECTRICAL BOARDS AND THERMOREGULA

FRANET v 3.0			
IMAGE	CODE	DESCRIPTION	
	1096421	Digital thermostat supplied with globe-probe compatible with Franet v.2 and Franet v.3	apiece
	1096422	Digital thermostat supplied with serial globe-probe compatible with Franet v.3 only	apiece
	SGCKWS	Franet plus web server	apiece

GATEWAY for SCADA systems			
IMAGE	CODE	DESCRIPTION	
	1096421	Digital thermostat supplied with globe-probe compatible with Franet v.2 and Franet v.3	apiece
	1096422	Digital thermostat supplied with serial globe-probe compatible with Franet v.3 only	apiece
	1094085	Franet / modbus RS485 gateway till 32 GSR	apiece

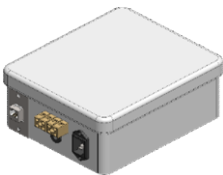
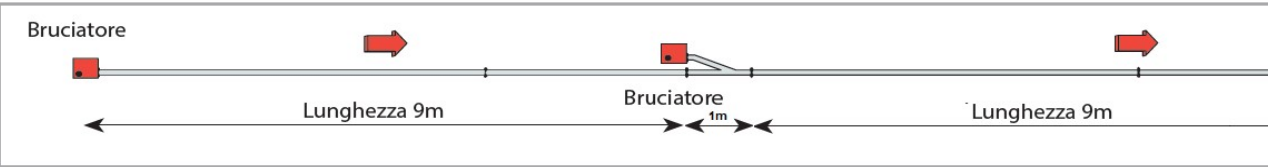
COMMON ACCESSORIES			
IMAGE	CODE	DESCRIPTION	
	1094081	Converter RS485/ethernet for Franet (except CRONO30 and Franet Lite)	apiece
	1094071	I-REPEATER amplifier for RS485	apiece
	1098902	Clock with daily and weekly adjustment	apiece

IMAGE	CODE	DESCRIPTION	
	R0271	Electrical board with 1 thermostat	apiece
	R0272	Electrical board with 2 thermostats	apiece
	R0273	Electrical board with 3 thermostats	apiece
	R0274	Electrical board with 4 thermostats	apiece
	R0275	Electrical board with 5 thermostats	apiece

ELECTRICAL PANELS ON/OFF			
IMAGE	CODE	DESCRIPTION	
	R0271S2	Electrical board with 1 thermostat	apiece
	R0272S2	Electrical board with 2 thermostats	apiece
	R0273S2	Electrical board with 3 thermostats	apiece
	R0274S2	Electrical board with 4 thermostats	apiece
	R0275S2	Electrical board with 5 thermostats	apiece

ELECTRICAL PANELS WITH CLOCK ON/OFF			
IMAGE	CODE	DESCRIPTION	
	R0271O	Electrical board with clock and Globe with 1 thermostat	apiece
	R0272O	Electrical board with clock and Globe with 2 thermostat	apiece
	R0273O	Electrical board with clock and Globe with 3 thermostat	apiece
	R0274O	Electrical board with clock and Globe with 4 thermostat	apiece
	R0275O	Electrical board with clock and Globe with 5 thermostat	apiece

ELECTRICAL PANELS WITH CLOCK TWO STAGES			
IMAGE	CODE	DESCRIPTION	
	R0271S2O	Electrical board with clock and Globe with 1 thermostat	apiece
	R0272S2O	Electrical board with clock and Globe with 2 thermostat	apiece
	R0273S2O	Electrical board with clock and Globe with 3 thermostat	apiece
	R0274S2O	Electrical board with clock and Globe with 4 thermostat	apiece
	R0275S2O	Electrical board with clock and Globe with 5 thermostat	apiece



	CODE	DESCRIPTION	POWER kW
	FRRED4020G20	2 burners, total length 20m, weight 171 kq	80 (40x2)
	FRRED4030G20	3 burners, total length 30m, weight 250 kq	120 (40x3)
	FRRED4040G20	4 burners, total length 40m, weight 330 kq	160 (40x4)
	FRRED4050G20	5 burners, total length 50m, weight 410 kq	200 (40x5)

7.15 PANRAD RED LINE COMBUSTION UNIT WITH 1 BURNER

RED LINE ON/OFF			
IMAGE	CODE	DESCRIPTION	
	FRRED20	model FRRED20 weight 11kg	20
	FRRED30	Model FRRED20 weight 11kg	30
	FRRED40	Model FRRED20 weight 11kg	40

RED LINE 2 STGES			
CODICE	DESCRIZIONE	Potenza kW	
FRRED20S2	Model FRRED20S2 weight 11kg	10 - 20	
FRRED30S2	Model FRRED20S2 weight 11kg	20 - 30	
FRRED40S2	Model FRRED20S2 weight 11kg	30 - 40	

7.16 CENTRALIZED EXHAUST FAN FOR PANRAD R

CENTRALIZED EXAUST FANS			
IMAGE	CODE	DESCRIPTION	POWER
	S205.1MF	Scroll diameter 220 mm, chimney connection diameter 80mm	0,18
	S205.1TF	Scroll diameter 220 mm chimney connection diameter 80mm	0,18
	S206.1MF	Scroll diameter 220 mm chimney connection diameter 100mm	0,24
	S206.1TF	Scroll diameter 220 mm chimney connection diameter 100mm	0,24
	S207.1MF	Scroll diameter 400 mm chimney connection diameter 100mm	1,1
	S207.1TF	Scroll diameter 400 mm chimney connection diameter 100mm	1,1

N.B. The extractor fans are not supplied with the support bracket and the weather-proof external protection

IMAGE	CODE	DESCRIPTION	
	S610	S205 exhaust fan connection Ø89 mm with shutter 100 mm	apiece
	S611	S206 exhaust fan connection Ø89 mm with shutter 100 mm	apiece
	S613	S207 exhaust fan connection Ø89 mm with shutter 100 mm	apiece

7.18 PANRAD RED LINE COMPONENTS

IMAGE	CODE	DESCRIPTION	
	T608	Flanged nickel-copper steel pipe ø 89 mm 1 mt long	apiece
	T609	Flanged nickel-copper steel pipe ø 89 mm 2 mt long	apiece
	T601	Flanged nickel-copper steel pipe ø 89 mm 3 mt long	apiece
	T600	Flanged nickel-copper steel pipe ø 89 mm 6 mt long	apiece
	S607	V pipe union in flanged nickel-copper steel, ø 89 mm	apiece
	S608	T pipe union flanged nickel-copper steel, ø 89 mm	apiece
	S609	90° U shaped flanged bend	apiece
	S540	Combustion gases adjustement locking gate	apiece
	S606	Flanged reduction to connect the exhaust fan to the radiating circuit	apiece
	S800	Ceramic fibre gasket supplied with M8x20 bolts	apiece
	S530	Galvanized supporting bracket with antivibration spring	apiece
	T702	Standard alluminium reflecting sheet, 3 mt each	apiece
	T713	High efficiency alluminium reflecting sheet, 3 mt each	apiece
	S900	Stainless steel exhaust gas terminal provided with bird protective netting, 1 mt	apiece
	TLRPT001VE	Protective painted grid for sigle radiant tube 3 m long	apiece
	TK007	Vertical chimney kit for Red line with condenser	apiece

7.19 FITTINGS FOR PANRAD RED LINE

IMAGE	CODE	DESCRIPTION	
	1025020	Ø 4 mm DIN chain	al metro
	1027000	Ø 5/6 mm "S" hook	al pezzo
	1144020	Black siliconic paint (ca. 17 gr. for linear meter)	al Kg
	1143010	Siliconic varnish thinner (120 gr. per each kg. of varnish)	al Litro

8.1 FRIGRAF COMBUSTION AND INTAKE GROUP

COMBUSTION AND INTAKE GROUPS WITH A SINGLE CASING FOR TANKS AND KILNS



CODE	DESCRIPTION	POWER kW	PRICE
FRIGRAF25	pipes diameter 89mm, weight 17kg, on/off	30	2.213,64 €
FRIGRAF35	pipes diameter 89mm, weight 17kg, on/off	40	2.319,72 €
FRIGRAF50	pipes diameter 114mm, weight 19kg, on/off	100	3.095,98 €
FRIGRAF25S2	pipes diameter 89mm, weight 17kg, two stages	20 - 30	2.385,34 €
FRIGRAF35S2	pipes diameter 89mm, weight 17kg, two stages	30 - 40	2.570,36 €
FRIGRAF50S2	pipes diameter 114mm, weight 19kg, two stages	50 - 100	3.347,97 €

Combustion and intake group, assembled in a single protective box painted into a lamp furnace containing a glazed steel burner with split flame Venturi type of different power depending on the required model, supplied with safety devices, centrifugal extractor with aluminium casting scroll, power supply switch with protection fuse carrier, working lights, flanges, bolts and ceramic fibre gaskets to connect ex-changer pipe.

8.2 IGRAF COMBUSTION GROUP

COMBUSTION GROUP FOR TANKS AND KILNS



CODE	DESCRIPTION	POWER kW	PRICE
FRI30	pipes diameter 89mm, weight 11kg, on/off	30	1.603,99 €
FRI50.1	pipes diameter 89mm, weight 12kg, on/off	50	1.699,15 €
FRI100	pipes diameter 114mm, weight 26kg, on/off	100	2.089,46 €
FRI30S2	pipes diameter 89mm, weight 11kg, two stages	20-30	1.841,32 €
FRI50.1S2	pipes diameter 89mm, weight 12kg, two stages	40-50	1.936,48 €
FRI100S2	pipes diameter 114mm, weight 26kg, two stages	70-100	2.282,38 €
FRI200S2	pipes diameter 165mm, weight 31kg, two stages	150-200	2.792,82 €
FRI300S2	pipes diameter 204mm, weight 40kg, two stages	200-300	3.637,30 €

Combustion group assembled in a protective casing in stainless steel AISI304 containing a glazed burner with split flame Venturi type of different power depending on the required model, supplied with safety devices, flanges, bolts and ceramic fibre gaskets to connect ex-changer pipe.

CENTRIFUGAL EXHAUST FAN FOR TANKS AND KILNS



CODE	DESCRIPTION	POWER SUPPLY
S204	power 200W, chimney fitting 100mm e attacco chiocciola diametro 110mm; peso 9,5 kg	230V-50Hz

Centrifugal exhaust fan, fit to work at maximum fumes temperature of 350C°, supplied with electrical engine monophase or threephase with different power depending on the required model, aluminium casting scroll and wheel, fixing brackets, protective box for air presostat, box terminal board with internal wire and flanged reduction with bolts and ceramic fibre gaskets to connect ex-changer pipe.



CODE	DESCRIPTION	POWER SUPPLY
S205.1MF	centrifugal exhaust fan power 200W with chimney connection diameter 80mm and connection fan diameter 220mm; weight 11 kg	230V-50Hz
S205.1TF	centrifugal exhaust fan power 200W with chimney connection diameter 80mm and connection fan diameter 220mm; weight 11 kg	400V-50Hz
S206.1MF	centrifugal exhaust fan power 200W with chimney connection diameter 100mm and connection fan diameter 300mm; weight 15 kg	230V-50Hz
S206.1TF	centrifugal exhaust fan power 200W with chimney connection diameter 100mm and connection fan diameter 300mm; weight 15 kg	400V-50Hz
S207.1MF	centrifugal exhaust fan power 1100W with chimney connection diameter 100mm and connection fan diameter 400mm; weight 29 kg	230V-50Hz
S207.1TF	centrifugal exhaust fan power 1100W with chimney connection diameter 100mm and connection fan diameter 400mm; weight 29 kg	400V-50Hz

CODE	DESCRIPTION	POWER SUPPLY
S215.1TF	centrifugal exhaust fan power 1500W with chimney connection diameter 100mm and connection fan diameter 635mm; weight 47 kg	400V-50Hz
S221TF	centrifugal exhaust fan power 2200W with chimney connection diameter 100mm and connection fan diameter 635mm; weight 67 kg	400V-50Hz

Note:

Note: When exhaust fans are supplied, the supporting bracket and weatherprotection are not included.

all the burners and exhaust fans are ip44 class and therefore they must be protected

CODE	DESCRIPTION	
S610	S205 exhaust fan connection Ø89 mm with shutter 100 mm	
S611	S206 exhaust fan connection Ø89 mm with shutter 100 mm	
S613	S207 exhaust fan connection Ø89 mm with shutter 100 mm	
S618	S205 exhaust fan connection Ø114 mm with shutter 100 mm	
S619	S206 exhaust fan connection Ø114 mm with shutter 100 mm	
S621	S207 exhaust fan connection Ø114 mm with shutter 100 mm	
S622	S221 Exhaust fan connection with lock-gate Lenght 100 mm - Fitting 114 mm	
S623	S215 Exhaust fan connection with lock-gate Lenght 100 mm - Fitting 114 mm	

8.5 THERMOREGULATION

CODE	DESCRIPTION	
R027F1D/1	Electrical board for 1 Burner, n.1 digital thermostat 0\400°C	
R027F1D/2	Electrical board for 2 Burners, n.1 digital thermostat 0\400°C	
R027F1D/3	Electrical board for 3 Burners, n.1 digital thermostat 0\400°C	
R027F1D/4	Electrical board for 4 Burners, n.1 digital thermostat 0\400°C	



CODE	DESCRIPTION	
R027F1	Electrical board for 1 Burner, n.1 digital thermostat 0\99°C	
R027F2	Electrical board for 2 Burners, n.1 digital thermostat 0\99°C	
R027F3	Electrical board for 3 Burners, n.1 digital thermostat 0\99°C	
R027F1O	Electrical board for 1 Burner, n.1 digital thermostat 0\99°C supplied with digital electronic clock	
R027F1DO/1	Electrical board for 1 Burner, n.1 digital thermostat 0\400°C supplied with digital electronic clock	



CODE	DESCRIPTION	
------	-------------	--



1065205	Standard flange for pipe Ø 89 mm in Fe	
T411	Standard flange for pipe Ø 89 mm in stainless steel	



1063301	Expander AISI 316 Ø75mm to be welded (coupling A304L belows A321)	
---------	---	--



T400AS	Expander AISI 316 Ø75mm to be welded (flange Fe belows A321)	
--------	--	--



S800	Ceramic fibre gasket supplied with M8x20 bolts	
S801	Ceramic fibre gascket 125x125x3 mm with bolts and screws in stainless steel	



S540	Combustion gases adjustment locking gate	
S542	Flanged lock-gate in Fe Ø 114 130 mm long	

QIH elektrische straler

Korte omschrijving

Infrarood Quarz-straler Aluminium Industrie 3000W 230/400V



Product omschrijving

De infraroodstraler EIH is geschikt als hoofd- of bijverwarming van grote ruimtes en ruimtes met hoge plafonds. Robuust industrieel design: Reflectors van blank geanodiseerd aluminium zorgen voor een optimale warmteverdeling. Dankzij de montagescharnieren kunnen vijf verschillende hellingshoeken worden ingesteld. Beschermr ooster als accessoire verkrijgbaar. Kleur: stalen paneel met aluminiumzinkcoating, type bescherming: IP 44, max. oppervlaktetemperatuur: 700°C, keurmerk: SEMKO, CE-conform.

ETIM Kenmerken

Uitvoering	Plafondstraler	Spanning	230 400 Volt
Montagewijze	Opbouw	Aantal verwarmingsstanden	1
Vermogensstand UIT	✕	Min. verwarmingsvermogen	1000 Watt
Montage boven commode	✕	Max. verwarmingsvermogen	3000 Watt
Beschermingsgraad (IP)	IP44	Min. montagehoogte	3 Meter
Kleur	Grijs	Max. montagehoogte	9 Meter
Compatible met Apple HomeKit	✕	Hoogte	1030 Millimeter
Compatible met Google Assistant	✕	Breedte	300 Millimeter
Compatible met Amazon Alexa	✕	Diepte	80 Millimeter
Met IFTTT ondersteuning	✕	RAL-nummer	0

INDUSTRIE

3000W / 4500W / 6000W

Elektrisch stralingspaneel

Montagehandleiding

panneau de rayonnement électrique

Instructions de Montage



 **400V**

 **230V**

Fig.1

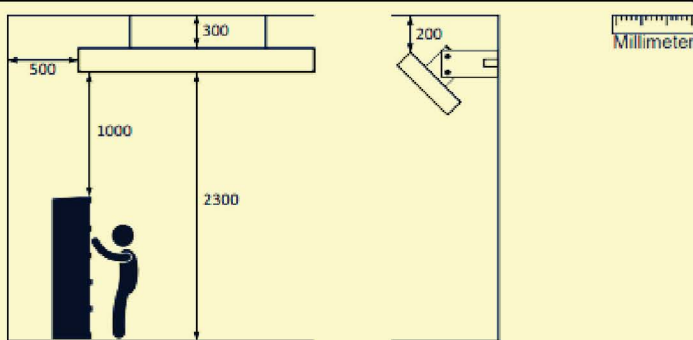


Fig.2

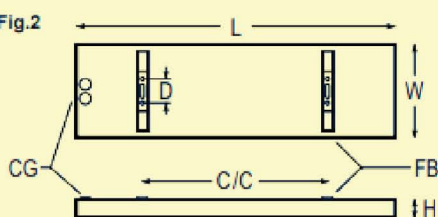


Fig.3

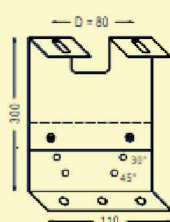


Fig.4a

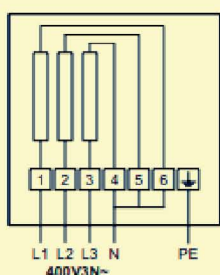


Fig.4b

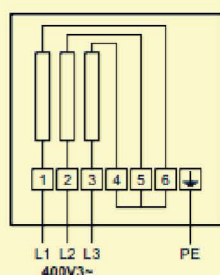


Fig.1 - Factory Default

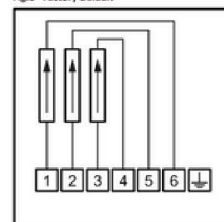
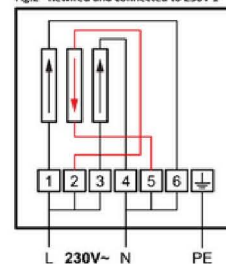


Fig.2 - Rewired and connected to 230V 1~



Bedradingsinstructie

Om de INDUSTRIE op 230V aan te sluiten, moet u de interne bedrading (rode lijnen) wijzigen en verbinden volgens afb. 2

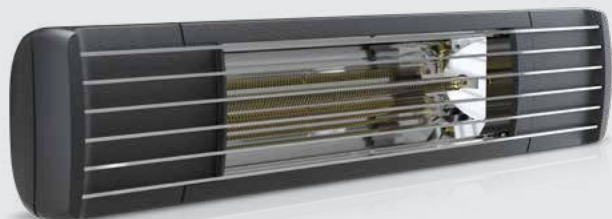
Instruction de recâblage

Afin de connecter INDUSTRIE sur du 230V, veuillez changer le câblage interne (lignes rouges) et connecter conformément à la Fig 2

Type	Output	Voltage	Current	L	W	H	C/C	Kg
EIR3000	3000W	400V3N~	4.33A	1030	300	80	650	5.5
EIR4500	4500W	400V3N~	6.50A	1360	300	80	820	7.0
EIR6000	6000W	400V3N~	8.66A	1680	300	80	1030	8.5

EXO PRO

Premium infraroodstraler zonder en met geïntegreerde bediening



De nieuwe premium infraroodstraler EXO PRO is speciaal ontworpen voor gebruik buitenshuis, zoals op terrassen, balkons, in restaurants of chalets. Dankzij de golflengte dringt de zeer krachtige kortegolvige infrarood-warmtestraling bijzonder efficiënt door de lucht, zorgt ze zeer snel voor een voelbaar warmtegevoel en garandeert ze een zeer zuinige werking in vergelijking met gasstralers of terrasverwarmers. Infraroodstralers kunnen buiten bijzonder flexibel worden ingezet en vergen geen enkel onderhoud. EXO PRO is optioneel verkrijgbaar met een geïntegreerde radiodimmer waarmee de straler eenvoudig met een afstandsbediening kan worden bediend en op drie niveaus (33/66/100%) kan worden ingesteld. Het toestel is vervaardigd uit hoogwaardig roestvrij aluminium en is dankzij beschermingsgraad IP 65 beschermd tegen waterstralen, wat een gebruik het hele jaar door mogelijk maakt. De innovatieve carbon-verwarmingsbuis levert een maximaal warmtevermogen met minimaal restlicht en heeft een bovengemiddelde levensduur van 10 000 uur. Ze is omgeven door de reflector, zodat de warmte gericht naar voren wordt uitgestraald.

EXO PRO Premium infraroodstraler

CR: R2 | LT: uit voorraad

Type	Art.-nr.	Vermogen (W)	Breedte (mm)	Hoogte (mm)	Diepte (incl. steun) (mm)	Gewicht (kg)
EXO-PRO-2000-W	45000	2000	830	155	111 (250)	5,00
EXO-PRO-2000-B	45001	2000	830	155	111 (250)	5,00
EXO-PRO-2500-W	45002	2500	930	155	111 (250)	5,67
EXO-PRO-2500-B	45003	2500	930	155	111 (250)	5,67

EXO PRO RC Premium infraroodstraler met schakelaar en geïntegreerde radiobediening

CR: R2 | LT: uit voorraad

Type	Art.-nr.	Vermogen (W)	Breedte (mm)	Hoogte (mm)	Diepte (incl. steun) (mm)	Gewicht (kg)
EXO-PRO-2000RC-W	45006	2000	830	155	111 (250)	5,23
EXO-PRO-2000RC-B	45007	2000	830	155	111 (250)	5,23
EXO-PRO-2500RC-W	45008	2500	930	155	111 (250)	5,90
EXO-PRO-2500RC-B	45009	2500	930	155	111 (250)	5,90

W: Wit B: Zwart

Toebehoren

CR: A8 | LT: uit voorraad

Type	Art.-nr.	Omschrijving
RC-EXO-RC	45050	Radioafstandsbediening voor EXO
LM-EXO-PRO-2000	45040	Carbonbuis 2000 W voor infraroodstraler EXO PRO
LM-EXO-PRO-2500	45041	Carbonbuis 2500 W voor infraroodstraler EXO PRO

TECHNISCHE GEGEVENS

- > Nominale spanning: 230 V
- > Verwarmingsbuis: premium carbonbuis
- > Vermogen: 2000/2500 W
ø Levensduur van de buis 10.000 u
wit RAL 9016, zwart RAL9011
- > Kleuren:
- > Aan/uit-schakelaar: neen
- > Beschermingsgraad: IP 65
- > Aansluiting: voedingskabel 180 cm
- > Garantie: 5 jaar

PRODUCTVOORDELEN

- + Maximale warmtedichtheid dankzij de innovatieve premium carbon-infraroodbuis
- + Geen zichtbaar stralingslicht tijdens de werking
- + Extreem lange levensduur van de premium carbon-infraroodbuis
- + Voor wand- en plafondmontage
- + Eenvoudig en snel montagesysteem met twee kantelbare T-steunen
- + RC-uitvoering regelbaar met afstandsbediening
- + RC-uitvoering met 3 niveaus (33 % / 66 % / 100 %)

TOEPASSINGSGEBIED

- + Buitenruimten, bv. terrassen, balkons, tuinen, camping-terreinen, vakantiewoningen of horeca
- + Verwarmd oppervlak: tot 16 m² bij 2000 W
tot 18 m² bij 2500 W

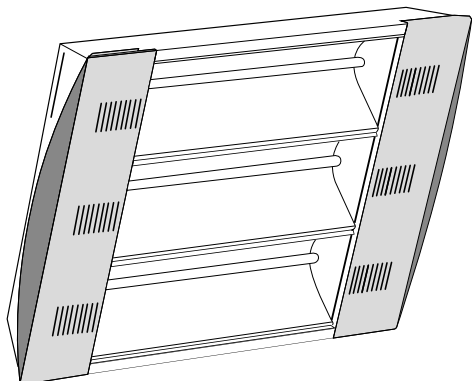


Optioneel: draadloze
afstandsbediening
4 kanalen



IRC NOVUS

Infrarood
Grote reikwijdte



DE TROEVEN

- ▶ **HeLen-lamp:** snelle en efficiënte verwarming, lange levensduur.
- ▶ **Ruim gamma:** 3 vermogens beschikbaar voor uiteenlopende behoeften.



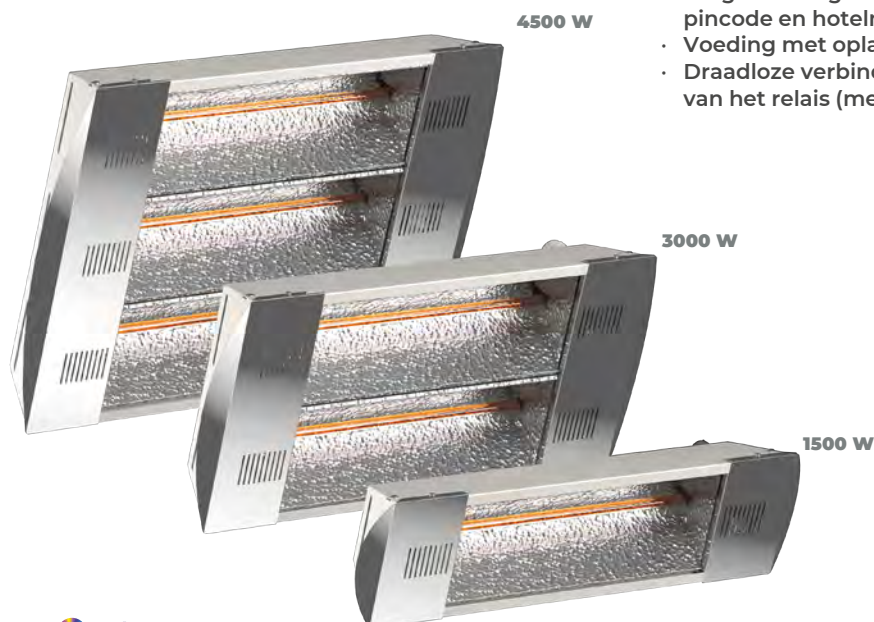
NIEUWE THERMOSTAAT FLEXRELAIS

De **Thermostaat FlexRelais** stuurt en regelt de **stralingscassettes BT/MT**, de **infraroodstraler IRC NOVUS** en de **ketels** en andere apparatuur* die een temperatuurregeling vereisen.

*Raadpleeg ons

M090087

Doel: plaatselijke verwarming van werkplekken



Functies

- Regeling van de omgevingstemperatuur
- Weekprogrammering
- Afwijkingen Afwezig (Eco) en Vorstvrij
- Snelactie «Ik vertrek / Ik kom aan»
- Vergrendeling van de bediening: eenvoudig, met pincode en hotelmodus
- Voeding met oplaadbare batterijen en/of via USB-C 5V
- Draadloze verbinding (radiofrequentie) voor de sturing van het relais (meegeleverd)



Ze verwarmen zelfs de moeilijkste omgevingen

De door de reflector gebundelde straling met grote reikwijdte is de doeltreffendste oplossing voor **verwarming op grote hoogte van zones die als onverwarmbaar bekendstaan**. Daarom vindt men de IRC terug in kerken, op caféterrassen, in fabrieken enz.

Ze verspreiden een plaatselijke en comfortabele warmte

90% van de straling wordt gebundeld naar de werkplek of de te verwarmen zone gericht, wat ongemak tegengaat, ongeacht de situatie. **Het warmtegevoel is onmiddellijk voelbaar.**

Ze zijn eenvoudig te installeren

De IRC beschikt over een multidirectionele steun die bevestiging aan de wand of aan het plafond mogelijk maakt voor **een horizontale of verticale oriëntatie over 180°**.

Ze zijn gemaakt om lang mee te gaan

De robuuste behuizing is van epoxystaal, wat een lange levensduur waarborgt. **Een beschermrooster** is eveneens verkrijgbaar (als optie) om het toestel tegen stoten te beschermen en het te beveiligen wanneer het binnen handbereik hangt.



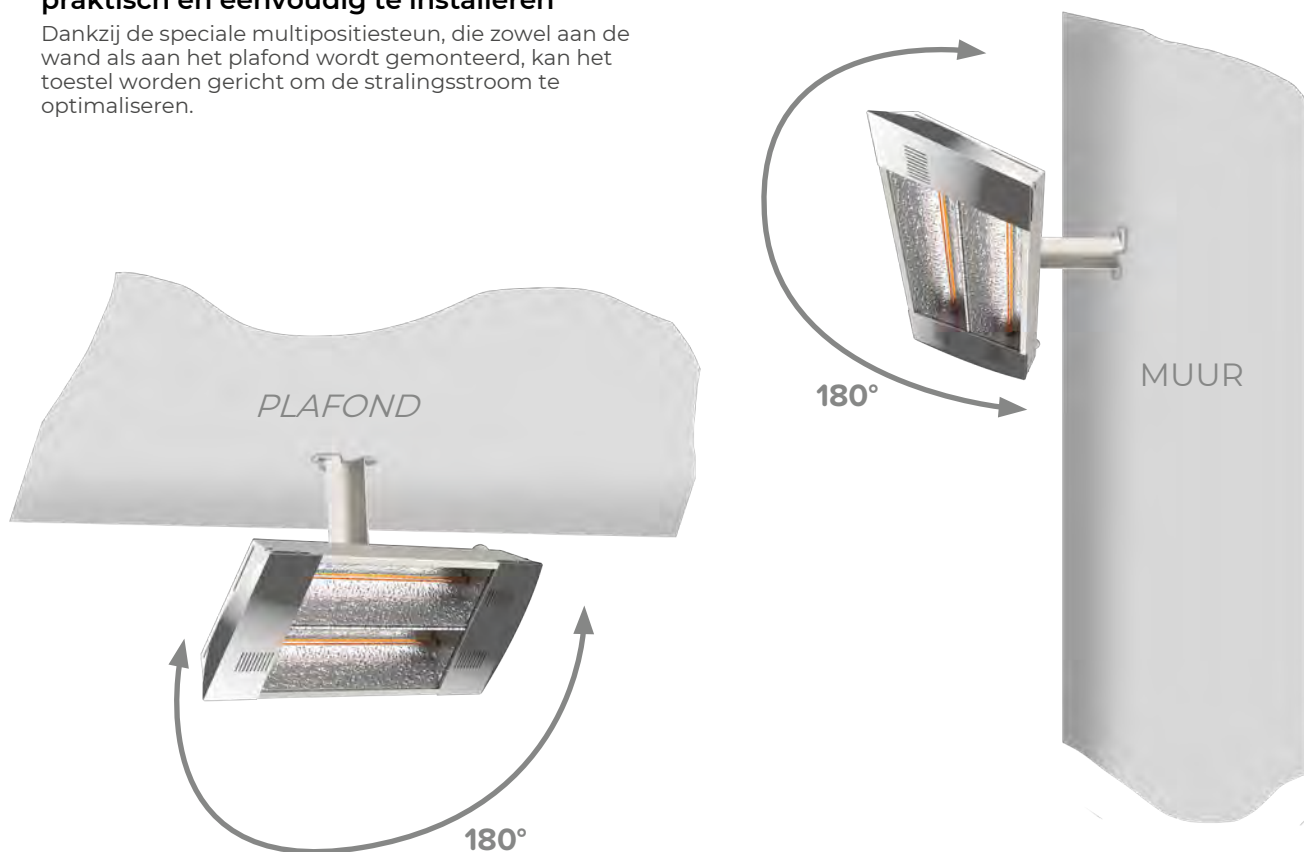
IRC NOVUS

Infrarood

Grote reikwijdte

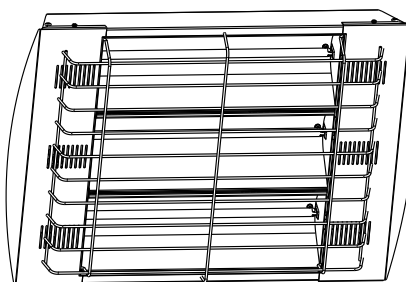
Een universele multipositiesteun, praktisch en eenvoudig te installeren

Dankzij de speciale multipositiesteun, die zowel aan de wand als aan het plafond wordt gemonteerd, kan het toestel worden gericht om de stralingsstroom te optimaliseren.



Het beschermrooster (als optie)

Het beschermt de toestellen wanneer die worden geïnstalleerd in een risicovolle omgeving, zoals sportzalen of in de buurt van doorgangszones.



Niet-contractuele afbeelding

Bepaling van het te installeren vermogen

Om de toestellen te kiezen, moet u rekening houden met hun hoogte en hun montagewijze en met het benodigde vermogen naargelang het type ruimte.

- 150 tot 300 W/m² in gesloten ruimten
- 300 tot 600 W/m² in beschutte buitenruimten

Bepaal het te installeren IRC-type aan de hand van de tabel hiernaast:

- IRC horizontale installatie
- IRC installatie op 45°

IRC horizontale installatie

Oppervlakte- vermogen W/m ²	Hoogte in meters										
	3	3,5	4	4,5	5	5,5	6	6,5	7	7,5	8
150	1500	1500	1500	1500	1500	3000	3000	3000	3000	4500	4500
200	1500	1500	1500	1500	3000	3000	3000	4500	4500	4500	4500
250	1500	1500	1500	3000	3000	4500	4500	4500	4500	4500	4500
300	1500	1500	3000	3000	4500	4500	4500	4500	4500	4500	4500
350	1500	3000	3000	4500	4500	4500	4500	4500	4500	4500	4500
400	1500	3000	4500	4500	4500	4500	4500	4500	4500	4500	4500
450	3000	3000	4500	4500	4500	4500	4500	4500	4500	4500	4500
500	3000	3000	4500	4500	4500	4500	4500	4500	4500	4500	4500
550	3000	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500
600	3000	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500

IRC installatie op 45°

Oppervlakte- vermogen W/m ²	Hoogte in meters										
	3	3,5	4	4,5	5	5,5	6	6,5	7	7,5	8
150	1500	1500	3000	3000	4500	4500	4500	4500	4500	4500	4500
200	1500	3000	3000	4500	4500	4500	4500	4500	4500	4500	4500
250	3000	3000	4500	4500	4500	4500	4500	4500	4500	4500	4500
300	3000	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500
350	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500
400	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500
450	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500
500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500
550	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500
600	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500



Spanning alle modellen: Mono 230 V
Model 4500 W: Mono 230 V,
Tri 400 V

Klasse I
IP21 - IK08



REFERENTIES IRC NOVUS

Vermogens (W)	L x H x D* (mm)	Gewicht (kg)	Referenties
HELEN-LAMP - GEHAMERDE REFLECTOR			
1500	531 x 146 x 130	2,3	M167223
3000	531 x 263 x 130	4,0	M167226
4500	531 x 389 x 130	5,6	M167228
Kleur beige			
TOEBEHOREN			
THERMOSTAAT FLEXRELAIS			M090087
Beschermmrooster voor 1500 W			M090050
Beschermmrooster voor 3000 W			M090051
Beschermmrooster voor 4500 W			M090052