



CENTRIFUGAL ROOF FAN

APPLICATION

Roof mounted centrifugal fan with compact design, for horizontal discharge or vertical through accessory on request, suitable to extract air directly to the outside or through ducting in commercial and industrial buildings such as factories, sports halls, shops, warehouses, kitchens, etc., where high pressure is required.

CONSTRUCTION

- The support housing is manufactured from high quality galvanised steel which provides a long lasting, robust construction and high stability.
- Rainproof cowl made from weather resistant ABS, specifically designed to assure the motor cooling.
- Protection guard made of steel tailored to grant a smooth airflow and an easy maintenance.
- High performance centrifugal back-curved impeller, statically and dynamically balanced, manufactured from technopolymer.
- Asynchronous AC external rotor motors, single-phase or three-phase, speed controllable, IP54 protection degree, Class F insulation, suitable for continuous operation S1.
- Electrical connection to the motor is provided by an IP55 terminal box fitted into the motor support, under the rainproof cowl.

FEATURES & BENEFITS

- Compact sizes optimized to minimize the aesthetic impact.
- Robust construction for long lasting operation in any weather condition.
- The rainproof cowl has a minimalistic design to meet any architectural contest.
- Eyebolts provided to assure the cowl fixing and to simplify the lifting, the inspection and the maintenance operations.
- Fans are suitable for operating temperatures between -15°C and $+60^{\circ}\text{C}$.
- Tested to the latest standards, meaning accurate, up to date information on electrical safety, performance and noise level that can be relied upon.
- Designed and manufactured in accordance with Machine Directive (MD), Low Voltage Directive (LVD), Electromagnetic Compatibility Directive (EMC) and Regulation 1253/2014 (ErP Directive).

ACCESSORIES

- Counter-base.
- Purlin box 15° .
- Purlin box H300.
- Gravity shutter.
- Rainproof deflectors.
- Vertical discharge deflectors.
- Side panel.
- Service switch panel.
- Service switch.
- Transformer controller.

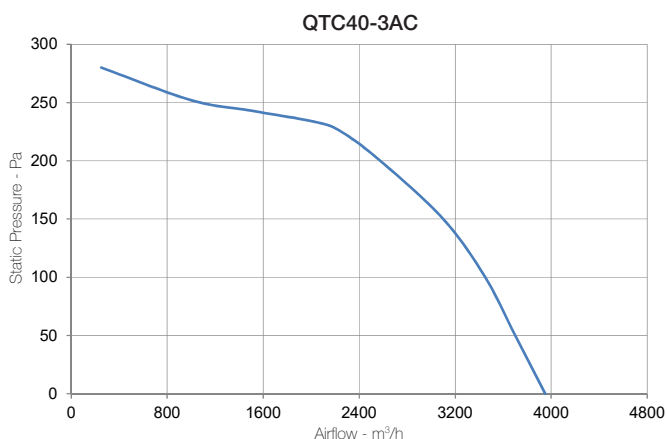
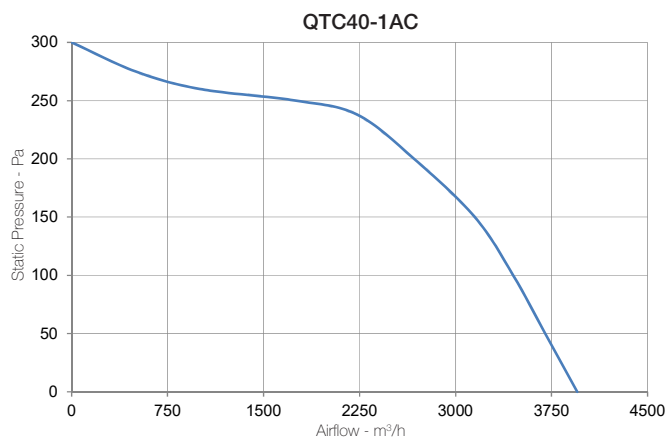
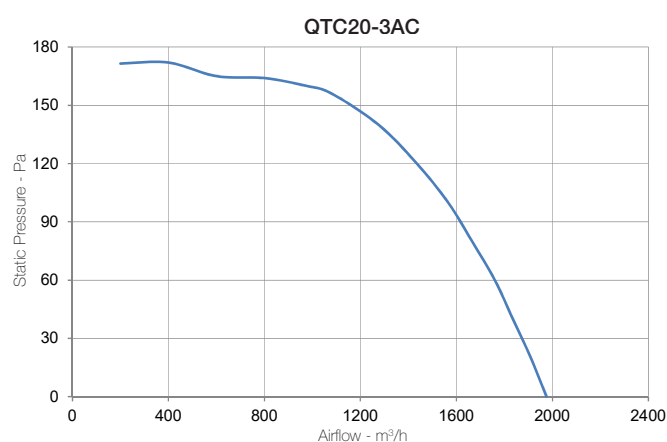
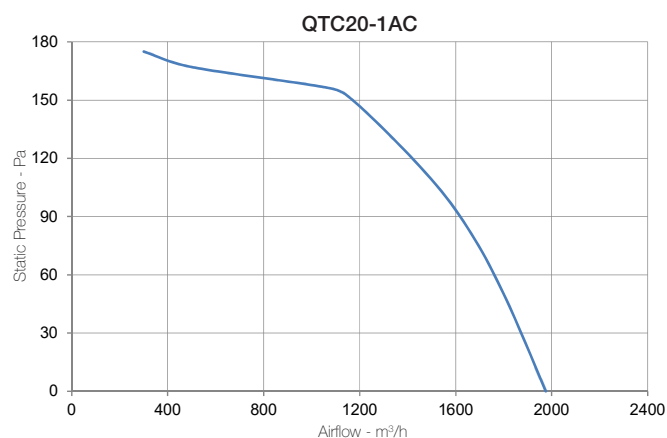
Performances

Description	Poles	Mot.	P _{el}	I _{nom}	I _{start}	IP/Cl.
		size	kW	A	A	
QTC20-1AC	4	-	0,13	0,66	2,4	54/F
Description	Code	Eff.	SFP	Q max	Lp	
		%	W/m³/h	m³/h	dB(A) @3m Breakout	
QTC20-1AC	002487	36,9	0,118	1980	38	

Description	Poles	Mot.	P _{el}	I _{nom}	I _{start}	IP/Cl.
		size	kW	A	A	
QTC20-3AC	4	-	0,13	0,36	1,7	54/F
Description	Code	Eff.	SFP	Q max	Lp	
		%	W/m³/h	m³/h	dB(A) @3m Breakout	
QTC20-3AC	002488	36,9	0,118	1980	37	

Description	Poles	Mot.	P _{el}	I _{nom}	I _{start}	IP/Cl.
		size	kW	A	A	
QTC40-1AC	4	-	0,37	1,85	5,5	54/F
Description	Code	Eff.	SFP	Q max	Lp	
		%	W/m³/h	m³/h	dB(A) @3m Breakout	
QTC40-1AC	002489	41,2	0,161	3950	45	

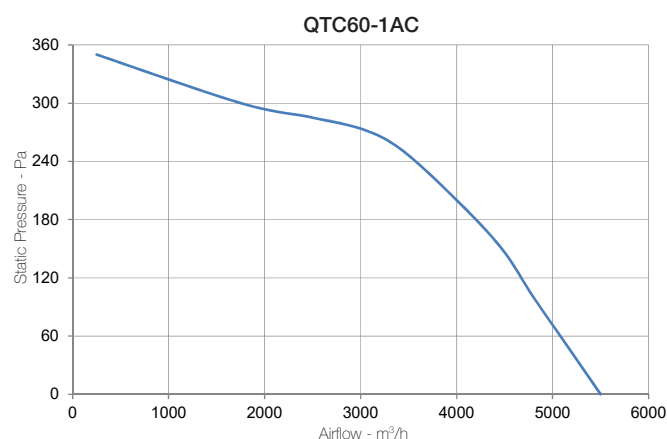
Description	Poles	Mot.	P _{el}	I _{nom}	I _{start}	IP/Cl.
		size	kW	A	A	
QTC40-3AC	4	-	0,33	0,68	2,8	54/F
Description	Code	Eff.	SFP	Q max	Lp	
		%	W/m³/h	m³/h	dB(A) @3m Breakout	
QTC40-3AC	002490	43,8	0,148	3950	43	



Performances

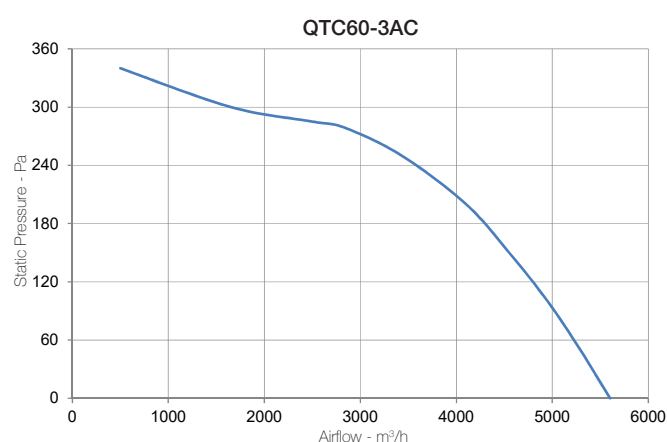
Description	Poles	Mot.	P _{el}	I _{nom}	I _{start}	IP/Cl.
		size	kW	A	A	
QTC60-1AC	4	-	0,58	2,6	6,0	54/F

Description	Code	Eff.	SFP	Q max	Lp	
		%	W/m³/h	m³/h	dB(A) @3m Breakout	
QTC60-1AC	002491	42,8	0,176	5500	46	



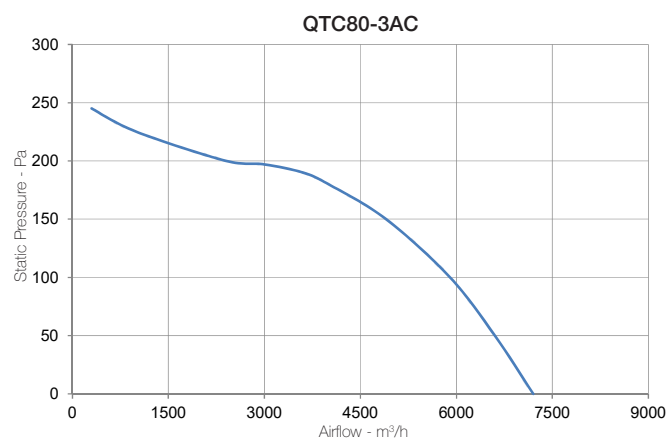
Description	Poles	Mot.	P _{el}	I _{nom}	I _{start}	IP/Cl.
		size	kW	A	A	
QTC60-3AC	4	-	0,54	1,2	4,2	54/F

Description	Code	Eff.	SFP	Q max	Lp	
		%	W/m³/h	m³/h	dB(A) @3m Breakout	
QTC60-3AC	002492	45,4	0,171	5600	46	



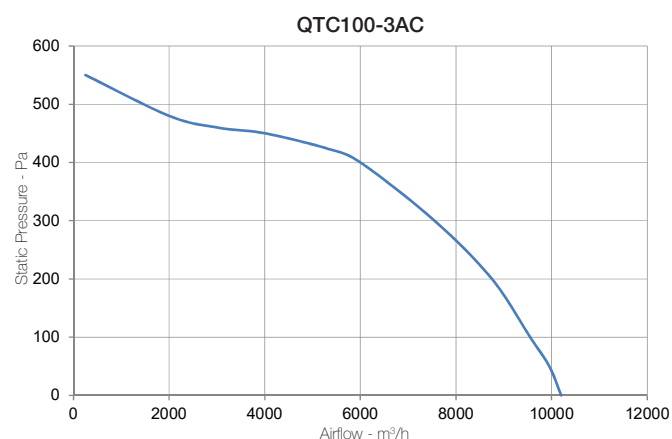
Description	Poles	Mot.	P _{el}	I _{nom}	I _{start}	IP/Cl.
		size	kW	A	A	
QTC80-3AC	6	-	0,48	0,88	2,8	54/F

Description	Code	Eff.	SFP	Q max	Lp	
		%	W/m³/h	m³/h	dB(A) @3m Breakout	
QTC80-3AC	002493	42,1	0,125	7200	41	



Description	Poles	Mot.	P _{el}	I _{nom}	I _{start}	IP/Cl.
		size	kW	A	A	
QTC100-3AC	4	-	1,45	2,8	9,5	54/F

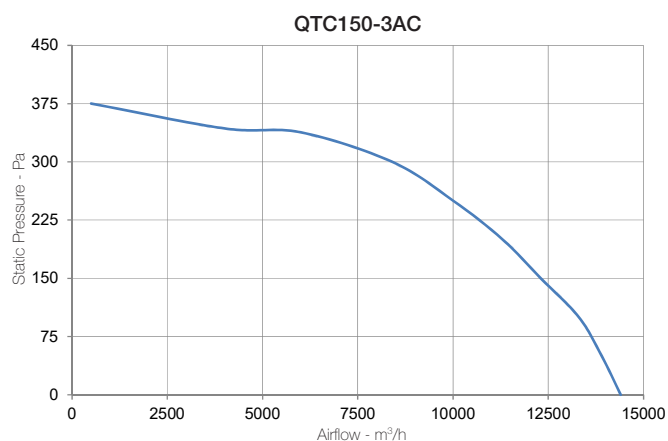
Description	Code	Eff.	SFP	Q max	Lp	
		%	W/m³/h	m³/h	dB(A) @3m Breakout	
QTC100-3AC	002494	47,5	0,248	10400	51	



Performances

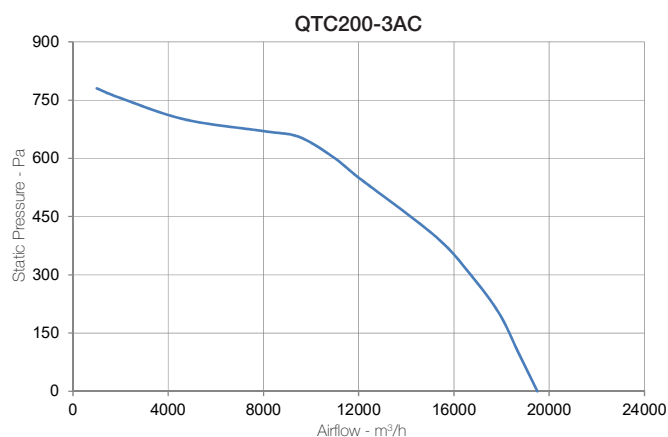
Description	Poles	Mot.	P _{el}	I _{nom}	I _{start}	IP/Cl.
		size	kW	A	A	
QTC150-3AC	6	-	1,45	3,4	12,0	54/F

Description	Code	Eff.	SFP	Q max	Lp	
		%	W/m³/h	m³/h	dB(A) @3m Breakout	
QTC150-3AC	002495	49,6	0,168	14400	48	

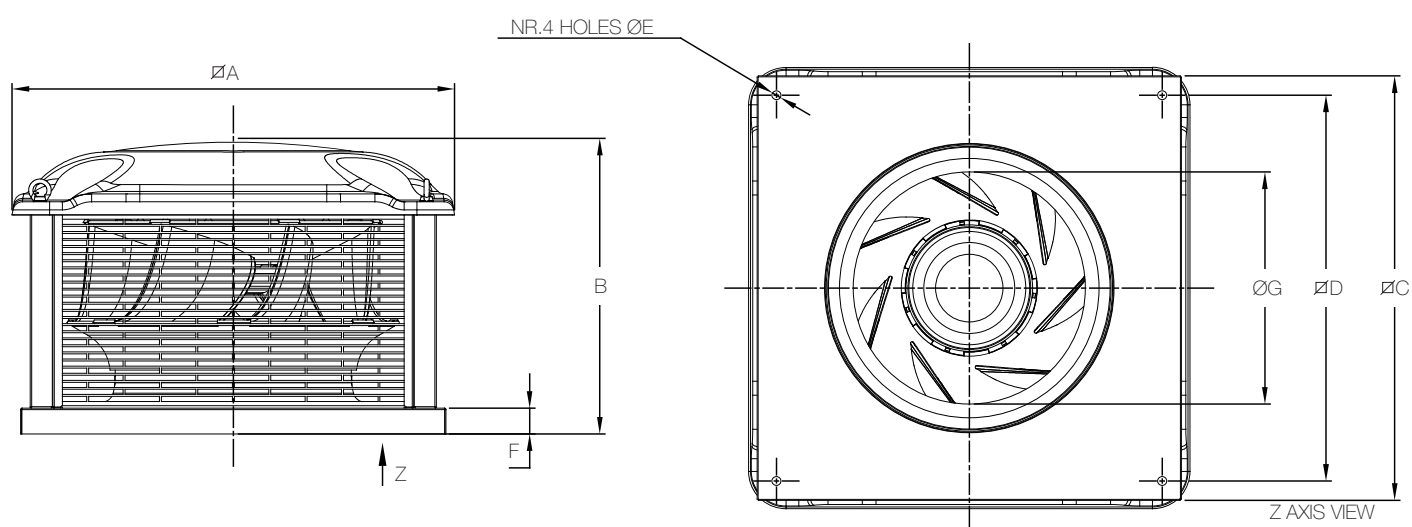


Description	Poles	Mot.	P _{el}	I _{nom}	I _{start}	IP/Cl.
		size	kW	A	A	
QTC200-3AC	4	-	3,9	6,6	26,0	54/F

Description	Code	Eff.	SFP	Q max	Lp	
		%	W/m³/h	m³/h	dB(A) @3m Breakout	
QTC200-3AC	002496	50,7	0,359	19400	57	



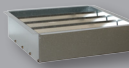


Dimensions (mm) and Weight (kg)






Description	$\varnothing A$	B	$\varnothing C$	$\varnothing D$	$\varnothing E$	F	G	Weight
QTC20	460	305	430	390	10	40	200	14
QTC40	570	360	540	490	12	40	253	24
QTC60	570	380	540	490	12	40	290	26
QTC80	690	450	660	600	12	40	360	40
QTC100								52
QTC150	830	535	800	740	12	40	447	74
QTC200								86

Accessories

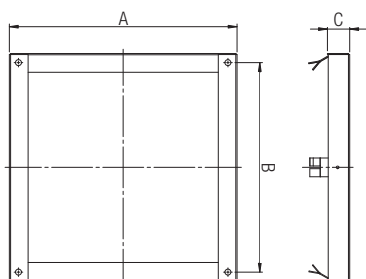
Description	 Counter-base		 Purlin box 15°		 Purlin box H300	
Page	68		68		68	
	Description	Code	Description	Code	Description	Code
QTC20	BASE QTC20	003439	PURLIN BOX 15° QTC20	003427	PURLIN BOX FLAT H300 QTC20	003431
QTC40	BASE QTC40/60	003440	PURLIN BOX 15° QTC40/60	003428	PURLIN BOX FLAT H300 QTC40/60	003432
QTC60	BASE QTC40/60	003440	PURLIN BOX 15° QTC40/60	003428	PURLIN BOX FLAT H300 QTC40/60	003432
QTC80/100	BASE QTC80/100	003441	PURLIN BOX 15° QTC80/100	003429	PURLIN BOX FLAT H300 QTC80/100	003433
QTC150/200	BASE QTC150/200	003442	PURLIN BOX 15° QTC150/200	003430	PURLIN BOX FLAT H300 QTC150/200	003434

Description	 Gravity shutter		 Rainproof deflectors (set of 4)		 Vertical discharge deflectors (set of 4)	
Page	69		69		69	
	Description	Code	Description	Code	Description	Code
QTC20	SRD/G QTC20	003435	KDFPP QTC20	002697	KDFV QTC20	002652
QTC40	SRD/G QTC40/60	003436	KDFPP QTC40/60	002698	KDFV QTC40	002653
QTC60	SRD/G QTC40/60	003436	KDFPP QTC40/60	002698	KDFV QTC60	002654
QTC80/100	SRD/G QTC80/100	003437	KDFPP QTC80/100	002700	KDFV QTC80/100	002655
QTC150/200	SRD/G QTC150/200	003438	KDFPP QTC150/200	002702	KDFV QTC150/200	002657

Description	 Side panel		 Service switch panel		 Service switch	
Page	70		70		70	
	Description	Code	Description	Code	Description	Code
QTC20	PNLL QTC20	002690	PNLSS QTC20/200	003528	SEZIONATORE 4P	002704
QTC40	PNLL QTC40	002691				
QTC60	PNLL QTC60	002692				
QTC80/100	PNLL QTC80/100	002693				
QTC150/200	PNLL QTC150/200	002695				

Description	 Transformer controller	
Page	71	
	Description	Code
QTC20-1AC	R-E-1.5G	003081
QTC20-3AC	R-D-1G	003082
QTC40-1AC	R-E-2G	003083
QTC40-3AC	R-D-2G	003084
QTC60-1AC	R-E-3.5G	003085
QTC60-3AC	R-D-2G	003084
QTC80-3AC	R-D-2G	003084
QTC100-3AC	R-D-5.2G	003086
QTC150-3AC	R-D-7	003087
QTC200-3AC	R-D-14	003088

Counter-base

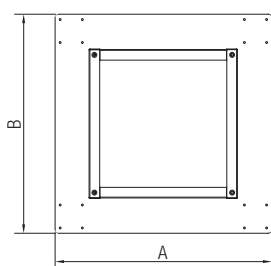
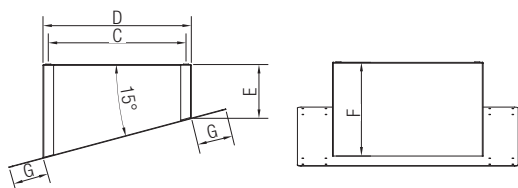
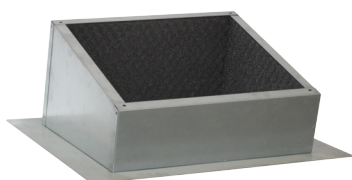


- Manufactured from galvanised steel.
- Supplied with 4 strips to ensure an effective anchoring to the support structure.

Description	A	B	C
BASE QTC20	420	390	41,5
BASE QTC40/60	530	490	41,5
BASE QTC80/100	650	600	41,5
BASE QTC150/200	790	740	41,5

Dimensions in mm

Purlin box 15°

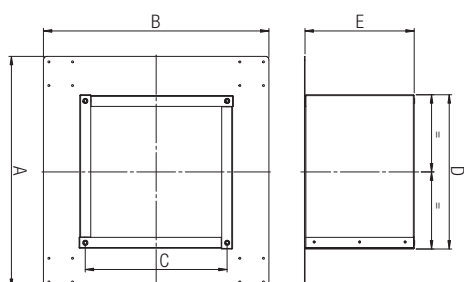


- Manufactured from galvanised steel for installation on 15° slanted roof.
- Equipped with insulation foam, for acoustic comfort and to prevent air-leakage.
- To be used on sloped roofs to avoid cost effective building or carpentry works and to prevent water stagnation near the fan.

Description	A	B	C	D	E	F	G
PURLIN BOX 15° QTC20	635	620	390	420	150	263	100
PURLIN BOX 15° QTC40/60	750	730	490	530	175	318	100
PURLIN BOX 15° QTC80/100	870	850	600	650	200	375	100
PURLIN BOX 15° QTC150/200	1015	990	740	790	200	410	100

Dimensions in mm

Purlin box H300

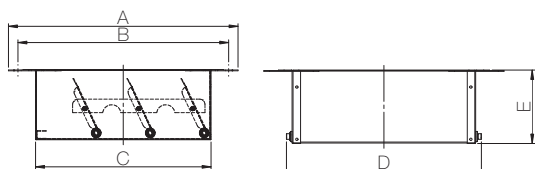
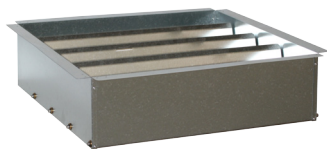


- Manufactured from galvanised steel for installation on flat roof.
- Equipped with insulation foam, for acoustic comfort and to prevent air-leakage.
- To be used to avoid cost effective building or carpentry works and to prevent water stagnation near the fan.

Description	A	B	C	D	E
PURLIN BOX FLAT H300 QTC20	635	620	390	420	300
PURLIN BOX FLAT H300 QTC40/60	750	730	490	530	300
PURLIN BOX FLAT H300 QTC80/100	870	850	600	650	300
PURLIN BOX FLAT H300 QTC150/200	1015	990	740	790	300

Dimensions in mm

Gravity shutter

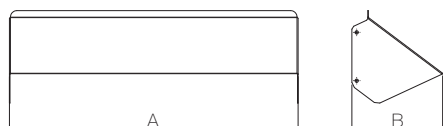


- Structure and back-draught shutters made from galvanised steel.
- Provided of fixings.
- Suitable for horizontal mounting only, also with the purling box.
- To prevent air leakage and heat dissipation when the fan is not operating.

Description	A	B	C	D	E
SRD/G QTC20	425	390	325	345	130
SRD/G QTC40/60	525	490	425	445	165
SRD/G QTC80/100	635	600	535	555	195
SRD/G QTC150/200	775	740	675	695	195

Dimensions in mm

Rainproof deflectors



- Set of 4 deflectors with fixings.
- Manufactured from galvanised steel.
- To further protect the roof fan in case of particularly bad weather conditions.

Description	A	B
KDFPP QTC20	365	95
KDFPP QTC40/60	448	140
KDFPP QTC80/100	565	175
KDFPP QTC150/200	695	215

Dimensions in mm

Vertical discharge deflectors

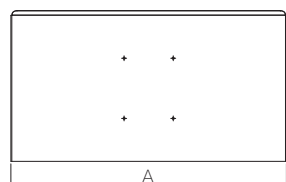


- Set of 4 deflectors with fixings.
- Manufactured from galvanised steel.
- To discharge the air vertically.

Description	A	B
KDFV QTC20	365	165
KDFV QTC40	447	210
KDFV QTC60	447	235
KDFV QTC80/100	565	280
KDFV QTC150/200	695	365

Dimensions in mm

Side panel



- Manufactured from galvanised steel.
- Set of 4 with fixings.
- To close one of discharge sides of the fan.

Description	A	B
PNLL QTC20	365	170
PNLL QTC40	450	212
PNLL QTC60	450	238
PNLL QTC80/100	565	295
PNLL QTC150/200	695	370

Dimensions in mm

Service switch panel



- Manufactured from galvanised steel.
- Supplied with fixings.
- To support and protect the service switch.

Description
PNLSS QTC20/200

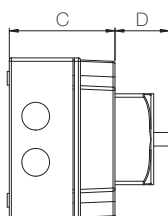
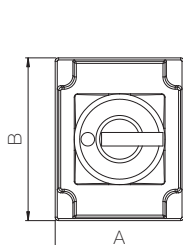
Service switch



- 4 pole breaker

Description	max Amp	A	B	C	D
SEZIONATORE 4P	16	95	120	78	39

Dimensions in mm



Transformer controller



- Controller for single-phase and three-phase motors.
- 5 stage speed controller via integral knob.
- On/off flashing indicator.
- Line voltage for single-phase regulators: 230V.
- Line voltage for three-phase regulators: 400V.
- Output voltage:
 - Single-phase unit: 65-110-135-170-230V.
 - Three-phase unit: 95-145-190-240-400V.
- Maximum temperature: +40°C.

Description	I nom (A)	T (°C)	Fuse max (A)	Max heat dissipation (W)	IP	Weight (kg)	Dimensions (WxHxD)
1 ~ 230V 50/60Hz							
R-E-1.5G	1,5	40	4	20	IP54	1,74	105x180x98
R-E-2G	2	40	4	20	IP54	2,20	166x230x118
R-E-3.5G	3,5	40	4	30	IP54	3,50	166x230x118
3 ~ 400V 50/60Hz							
R-D-1G	1	40	4	35	IP54	4,50	240x284x132
R-D-2G	2	40	4	45	IP54	7,20	240x284x132
R-D-5.2G	5,2	40	13	80	IP54	15,60	270x323x162
R-D-7	7	40	16	110	IP21	15,60	270x323x162
R-D-14	14	40	25	145	IP21	30,20	450x290x164

Dimensions in mm