

UKCA Certificate of Constancy of Performance

This is to certify that:

Nuaire
A Trading Division of Polypipe Ltd
Western Industrial Estate
Caerphilly
CF83 1NA
United Kingdom

Holds Certificate Number:

0086 CPR 741804

In respect of:

BS EN 12101-3:2015

Smoke and heat control systems. Specification for powered smoke and heat control ventilators (Fans)

In compliance with the Regulation (UK) Statutory Instrument 2019 No 465 of the United Kingdom Parliament (Construction Products (Amendment etc.) (EU Exit) Regulations or CPR), this certificate applies to the above construction product. This certificate attests that all the provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the above standard(s) under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the constancy of performance of the construction product. This certificate was first issued on the date below and will remain valid as long as neither the designated standard, the construction product, the AVCP methods, nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the approved product certification body.

For and on behalf of BSI, an Approved Body for the above Regulation (Approved Body Number 0086):

Shahm Barhom, Group Product Certification Director

First Issued: 2022-10-26

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No. 0086 CPR 741804

BS EN 12101-3:2015- Powered smoke and heat exhaust ventilators.

Smoke Axus Circular - Long Cased Axials 4Z, 5Z, 6W, 9W						
AX31M*	AX35M*	AX40M*	AX45M*	AX50M*	AX56M*	AX63M*
AX71M*	AX45N*	AX50N*	AX56N*	AX63N*	AX71N*	AX80N*
AX45O*	AX50O*	AX56O*	AX63O*	AX71O*	AX80O*	AX45P*
AX50P*	AX56P*	AX63P*	AX71P*	AX80P*	AX45Q*	AX50Q*
AX56Q*	AX63Q*	AX71Q*	AX80Q*	AX90Q*	AX45R*	AX50R*
AX56R*	AX63R*	AX71R*	AX80R*	AX90R*	AX45S*	AX50S*
AX56S*	AX63S*	AX71S*	AX80S*	AX90S*	AX80T*	AX90T*
AX80U*	AX90U*	AX80V*	AX90V*	AX80W*	AX90W*	AX31X*
AX35X*	AX40X*	AX45X*	AX50X*	AX56X*	AX63X*	AX71X*
AX80X*	AX90X*	AX100X*	AX45Y*	AX50Y*	AX56Y*	AX63Y*
AX71Y*	AX80Y*	AX90Y*	AX100Y*	AX45Z*	AX50Z*	AX56Z*
AX63Z*	AX71Z*	AX80Z*	AX90Z*	AX100Z*	AX45AA*	AX50AA*
AX56AA*	AX63AA*	AX71AA*	AX80AA*	AX90AA*	AX100AA*	AX56AB*
AX63AB*	AX71AB*	AX80AB*	AX90AB*	AX100AB*	AX112AB*	AX56AC*
AX63AC*	AX71AC*	AX80AC*	AX90AC*	AX100AC*	AX112AC*	AX56AD*
AX63AD*	AX71AD*	AX80AD*	AX90AD*	AX100AD*	AX112AD*	AX80AE*
AX90AE*	AX100AE*	AX112AE*	AX125AE*	AX80AF*	AX90AF*	AX100AF*
AX112AF*	AX125AF*	AX80AG*	AX90AG*	AX100AG*	AX112AG*	AX125AG*
AX80DE*	AX90DE*	AX100DE*	AX112DE*	AX125DE*	AX80DF*	AX90DF*
AX100DF*	AX112DF*	AX125DF*	AX80DG*	AX90DG*	AX100DG*	AX112DG*
AX125DG*	AX80DH*	AX90DH*	AX100DH*	AX112DH*	AX125DH*	AX80DJ*
AX90DJ*	AX100DJ*	AX112DJ*	AX125DJ*	AX100DK*	AX112DK*	AX125DK*
AX140DK*	AX100DL*	AX112DL*	AX125DL*	AX140DL*	AX100CW*	AX112CW*
AX125CW*	AX140CW*	AX150CW*	AX160CW*	AX100CX*	AX112CX*	AX125CX*
AX140CX*	AX150CX*	AX160CX*	AX100CY*	AX112CY*	AX125CY*	AX140CY*
AX150CY*	AX160CY*	AX100CZ*	AX112CZ*	AX125CZ*	AX140CZ*	AX150CZ*
AX160CZ*	AX125DA*	AX140DA*	AX150DA*	AX160DA*	AX125DB*	AX140DB*
AX150DB*	AX160DB*	AX45HJ*	AX50HJ*	AX56HJ*	AX63HJ*	AX71HJ*
AX80HJ*	AX45HK*	AX50HK*	AX56HK*	AX63HK*	AX71HK*	AX80HK*
AX45HL*	AX50HL*	AX56HL*	AX63HL*	AX71HL*	AX80HL*	AX90HL*
AX100HL*	AX45JM*	AX50JM*	AX56JM*	AX63JM*	AX71JM*	AX80JM*
AX90JM*	AX100JM*					
Response Delay	N/A					
Resistance to Fire class	F300 (tested to 300°C, 120mins)					
Motor insulation/Temp. rise	Class H/F					
Ancillaries	Mounting Brackets, Matching Flange, Flexible Connector (400°C), Fan Guard, Inlet Cone, Backdraught Damper, Attenuators, Anti-vibration Mounts, Roof Cowl, Frequency Converter (VSD), Bird Beak Outlet Cowl, Axial Skid and Shaft Cover Plate					
BSRIA reports 18415B/1, 18415B/2, 57117/23, 60547/2, 61247/3, 101740/1,100836/9, 104343-5 and 104343-6 refers.						

The * denotes that these models can be combined to form AXT, a run and standby fan, or AXC, a contra rotating fan, or AXJ, axial fan for jet fan application variants. The prefix AXT or AXC or AXJ replaces the single fan prefix AX as appropriate. Similarly for the BX range the coding will change to BXC for a short cased contra rotating fan. For the specific applications of skid mounted and plate mounted fans the base code AXH or AXV replaces the single fan prefix AX as appropriate. The table given in ANNEX A gives an example of the fan codes.

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UKCA Certificate of Constancy of Performance

No. 0086 CPR 741804

BS EN 12101-3:2015- Powered smoke and heat exhaust ventilators.

Smoke Axus Circular - Short Cased Axial 4Z, 5Z, 6W, 9W						
BX31M*	BX35M*	BX40M*	BX45M*	BX50M*	BX56M*	BX63M*
BX71M*	BX45N*	BX50N*	BX56N*	BX63N*	BX71N*	BX80N*
BX45O*	BX50O*	BX56O*	BX63O*	BX71O*	BX80O*	BX45P*
BX50P*	BX56P*	BX63P*	BX71P*	BX80P*	BX45Q*	BX50Q*
BX56Q*	BX63Q*	BX71Q*	BX80Q*	BX90Q*	BX45R*	BX50R*
BX56R*	BX63R*	BX71R*	BX80R*	BX90R*	BX45S*	BX50S*
BX56S*	BX63S*	BX71S*	BX80S*	BX90S*	BX80T*	BX90T*
BX80U*	BX90U*	BX80V*	BX90V*	BX80W*	BX90W*	BX31X*
BX35X*	BX40X*	BX45X*	BX50X*	BX56X*	BX63X*	BX71X*
BX80X*	BX90X*	BX100X*	BX45Y*	BX50Y*	BX56Y*	BX63Y*
BX71Y*	BX80Y*	BX90Y*	BX100Y*	BX45Z*	BX50Z*	BX56Z*
BX63Z*	BX71Z*	BX80Z*	BX90Z*	BX100Z*	BX45AA*	BX50AA*
BX56AA*	BX63AA*	BX71AA*	BX80AA*	BX90AA*	BX100AA*	BX56AB*
BX63AB*	BX71AB*	BX80AB*	BX90AB*	BX100AB*	BX112AB*	BX56AC*
BX63AC*	BX71AC*	BX80AC*	BX90AC*	BX100AC*	BX112AC*	BX56AD*
BX63AD*	BX71AD*	BX80AD*	BX90AD*	BX100AD*	BX112AD*	BX80AE*
BX90AE*	BX100AE*	BX112AE*	BX125AE*	BX80AF*	BX90AF*	BX100AF*
BX112AF*	BX125AF*	BX80AG*	BX90AG*	BX100AG*	BX112AG*	BX125AG*
BX80DE*	BX90DE*	BX100DE*	BX112DE*	BX125DE*	BX80DF*	BX90DF*
BX100DF*	BX112DF*	BX125DF*	BX80DG*	BX90DG*	BX100DG*	BX112DG*
BX125DG*	BX80DH*	BX90DH*	BX100DH*	BX112DH*	BX125DH*	BX80DJ*
BX90DJ*	BX100DJ*	BX112DJ*	BX125DJ*	BX100DK*	BX112DK*	BX125DK*
BX140DK*	BX100DL*	BX112DL*	BX125DL*	BX140DL*	BX100CW*	BX112CW*
BX125CW*	BX140CW*	BX150CW*	BX160CW*	BX100CX*	BX112CX*	BX125CX*
BX140CX*	BX150CX*	BX160CX*	BX100CY*	BX112CY*	BX125CY*	BX140CY*
BX150CY*	BX160CY*	BX100CZ*	BX112CZ*	BX125CZ*	BX140CZ*	BX150CZ*
BX160CZ*	BX125DA*	BX140DA*	BX150DA*	BX160DA*	BX125DB*	BX140DB*
BX150DB*	BX160DB*	BX45HJ*	BX50HJ*	BX56HJ*	BX63HJ*	BX71HJ*
BX80HJ*	BX45HK*	BX50HK*	BX56HK*	BX63HK*	BX71HK*	BX80HK*
BX45HL*	BX50HL*	BX56HL*	BX63HL*	BX71HL*	BX80HL*	BX90HL*
BX100HL*	BX45JM*	BX50JM*	BX56JM*	BX63JM*	BX71JM*	BX80JM*
BX90JM*	BX100JM*					
Response Delay	N/A					
Resistance to Fire class	F300 (tested to 300°C, 120mins)					
Motor insulation/Temp. rise	Class H/F					
Ancillaries	Mounting Brackets, Matching Flange, Flexible Connector (400°C), Fan Guard, Inlet Cone, Backdraught Damper, Attenuators, Anti-vibration Mounts, Roof Cowl, Frequency Converter (VSD), Bird Beak Outlet Cowl, Axial Skid and Shaft Cover Plate					
BSRIA reports 18415B/1, 18415B/2, 57117/23, 60547/2, 61247/3, 101740/1, 100836/9, 104343-5 and 104343-6 refers.						

The * denotes that these models can be combined to form AXT, a run and standby fan, or AXC, a contra rotating fan, or AXJ, axial fan for jet fan application variants. The prefix AXT or AXC or AXJ replaces the single fan prefix AX as appropriate. Similarly for the BX range the coding will change to BXC for a short cased contra rotating fan. For the specific applications of skid mounted and plate mounted fans the base code AXH or AXV replaces the single fan prefix AX as appropriate. The table given in ANNEX A gives an example of the fan codes.

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UKCA Certificate of Constancy of Performance

No. 0086 CPR 741804

BS EN 12101-3:2015- Powered smoke and heat exhaust ventilators.

Smoke Axus Circular- Pad Mounted Axial 4Z, 5Z range						
SX31M*	SX35M*	SX40M*	SX45M*	SX50M*	SX56M*	SX45N*
SX50N*	SX56N*	SX45O*	SX50O*	SX56O*	SX45P*	SX50P*
SX56P*	SX45Q*	SX50Q*	SX56Q*	SX45R*	SX50R*	SX56R*
SX45S*	SX50S*	SX56S*	SX31X*	SX35X*	SX40X*	SX45X*
SX50X*	SX56X*	SX45Y*	SX50Y*	SX56Y*	SX45Z*	SX50Z*
SX56Z*	SX45AA*	SX50AA*	SX56AA*	SX56AB*	SX56AC*	SX56AD*
SX45HJ*	SX50HJ*	SX56HJ*	SX45HK*	SX50HK*	SX56HK*	SX45HL*
SX50HL*	SX56HL*	SX45JM*	SX50JM*	SX56JM*		
Response Delay	N/A					
Resistance to Fire class	F300 (tested to 300°C, 120mins)					
Motor Insulation/Temp. rise	Class H/F					
Ancillaries	Mounting Brackets, Matching Flange, Flexible Connector (400°C), Fan Guard, Inlet Cone, Backdraught Damper, Attenuators, Anti-vibration Mounts, Roof Cowl, Frequency Converter (VSD), Bird Beak Outlet Cowl, Axial Skid and Shaft Cover Plate.					
BSRIA reports 18415B/1, 57117/24, 61247/4, 101740/2, 100836/10 and 104343-6 refer.						

The * denotes that these models can be combined to form AXT, a run and standby fan, or AXC, a contra rotating fan, or AXJ, axial fan for jet fan application variants. The prefix AXT or AXC or AXJ replaces the single fan prefix AX as appropriate. Similarly for the BX range the coding will change to BXC for a short cased contra rotating fan. The * denotes that these models can be combined to form AXT, a run and standby fan, or AXC, a contra rotating fan, or AXJ, axial fan for jet fan application variants. The prefix AXT or AXC or AXJ replaces the single fan prefix AX as appropriate. Similarly for the BX range the coding will change to BXC for a short cased contra rotating fan. For the specific applications of skid mounted and plate mounted fans the base code AXH or AXV replaces the single fan prefix AX as appropriate. The table given in ANNEX A gives an example of the fan codes.

The table given in ANNEX A gives an example of the fan codes.

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UKCA Certificate of Constancy of Performance

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BS EN 12101-3:2015- Powered smoke and heat exhaust ventilators.

Smoke Axus Circular- 3H Impellers						
AX31A*	AX31B*	AX31C*	AX31D*	AX31E*	AX31F*	AX35A*
AX35B*	AX35C*	AX35D*	AX35E*	AX35F*	AX40A*	AX40B*
AX40C*	AX40D*	AX40E*	AX40F*	AX45A*	AX45B*	AX45C*
AX45D*	AX45E*	AX45F*	AX50A*	AX50B*	AX50C*	AX50D*
AX50E*	AX50F*	AX56A*	AX56B*	AX56C*	AX56D*	AX56E*
AX56F*	AX56G*	AX56H*	AX56I*	AX63C*	AX63D*	AX63E*
AX63F*	AX63G*	AX63H*	AX63I*	AX71G*	AX71H*	AX71I*
AX40H*	AX45H*	AX50H*	AX40I*	AX45I*	AX50I*	
Smoke Axus Circular - Short Cased Axial 3H Impellers						
BX31A	BX31B	BX31C	BX31D	BX31E	BX31F	BX35A
BX35B	BX35C	BX35D	BX35E	BX35F	BX40A	BX40B
BX40C	BX40D	BX40E	BX40F	BX45A	BX45B	BX45C
BX45D	BX45E	BX45F	BX50A	BX50B	BX50C	BX50D
BX50E	BX50F	BX56A	BX56B	BX56C	BX56D	BX56E
BX56F	BX56G	BX56H	BX56I	BX63C	BX63D	BX63E
BX63F	BX63G	BX63H	BX63I	BX71G	BX71H	BX71I
Smoke Axus- Short Cased Pad Mounted Axial 3H Impellers						
SX31A	SX31B	SX31C	SX31D	SX31E	SX31F	SX35A
SX35B	SX35C	SX35D	SX35E	SX35F	SX40A	SX40B
SX40C	SX40D	SX40E	SX40F	SX45A	SX45B	SX45C
SX45D	SX45E	SX45F	SX50A	SX50B	SX50C	SX50D
SX50E	SX50F	SX56A	SX56B	SX56C	SX56D	SX56E
SX56F	SX56G	SX56H	SX56I			
Response Delay	N/A					
Resistance to Fire class	F300 (tested to 300°C, 120mins)					
Motor Insulation/Temp. rise	Class H/F					
Ancillaries	Mounting Brackets, Matching Flange, Flexible Connector (400°C), Fan Guard, Inlet Cone, Backdraught Damper, Attenuators, Anti-vibration Mounts, Roof Cowl, Frequency Converter (VSD), Bird Beak Outlet Cowl, Axial Skid and Shaft Cover Plate					
BSRIA reports 19416B/3, 57117/29, 57117/30, 61247/1, 61247/2, 100836/7, 100836/8, 104343-3 and 1014343-4 refer						

The * denotes that these models can be combined to form AXT, a run and standby fan, or AXC, a contra rotating fan, or AXJ, axial fan for jet fan application variants. The prefix AXT or AXC or AXJ replaces the single fan prefix AX as appropriate. Similarly for the BX range the coding will change to BXC for a short cased contra rotating fan. The * denotes that these models can be combined to form AXT, a run and standby fan, or AXC, a contra rotating fan, or AXJ, axial fan for jet fan application variants. The prefix AXT or AXC or AXJ replaces the single fan prefix AX as appropriate. Similarly for the SX range the coding will change to BXC for a short cased contra rotating fan. For the specific applications of skid mounted and plate mounted fans the base code AXH or AXV replaces the single fan prefix AX as appropriate. The table given in ANNEX A gives an example of the fan codes.

The table given in ANNEX A gives an example of the fan codes.

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UKCA Certificate of Constancy of Performance

No. 0086 CPR 741804

BS EN 12101-3:2015- Powered smoke and heat exhaust ventilators.

Smoke Axus Circular- Long Cased axials TR7Z, TR8Z Impellers						
AX31HY*	AX35HY*	AX40HY*	AX45HY*	AX50HY*	AX56HY*	AX63HY*
AX71HY*	AX80HY*	AX71JI*	AX80JI*	AX90JI*	AX100JI*	AX71JK*
AX80JK*	AX90JK*	AX100JK*	AX71JL*	AX80JL*	AX90JL*	AX100JL*
AX31JP*	AX35JP*	AX40JP*	AX45JP*	AX50JP*	AX56JP*	AX63JP*
AX71JP*	AX80JP*	AX90JP*	AX71JZ*	AX80JZ*	AX90JZ*	AX100JZ*
AX71KA*	AX80KA*	AX90KA*	AX100KA*	AX71KB*	AX80KB*	AX90KB*
AX100KB*						
Response Delay		N/A				
Resistance to Fire class		F300 (tested to 300°C, 120mins)				
Motor Insulation/Temp. rise		Class H/F				
Ancillaries		Mounting Brackets, Matching Flange, Flexible Connector (400°C), Fan Guard, Inlet Cone, Backdraught Damper, Attenuators, Anti-vibration Mounts, Roof Cowl, Frequency Converter (VSD), Bird Beak Outlet Cowl, Axial Skid and Shaft Cover Plate.				
BSRIA reports 101740/1, 100836/9, 104343-5 and 104343-6 refers						
Smoke Axus Circular- Pad Mounted axials TR7Z, TR8Z Impellers						
SX31HY*	SX35HY*	SX40HY*	SX45HY*	SX50HY*	SX56HY*	SX31JP*
SX35JP*	SX40JP*	SX45JP*	SX50JP*	SX56JP*		
Response Delay		N/A				
Resistance to Fire class		F300 (tested to 300°C, 120mins)				
Motor Insulation/Temp. rise		Class H/F				
Ancillaries		Mounting Brackets, Matching Flange, Flexible Connector (400°C), Fan Guard, Inlet Cone, Backdraught Damper, Attenuators, Anti-vibration Mounts, Roof Cowl, Frequency Converter (VSD), Bird Beak Outlet Cowl, Axial Skid and Shaft Cover Plate				
BSRIA reports 101740/2, 100836/10 and 104343-6 refers						
Smoke Axus Circular - Short Cased Axial TR7Z, TR8Z Impellers						
BX31HY*	BX35HY*	BX40HY*	BX45HY*	BX50HY*	BX56HY*	BX63HY*
BX71HY*	BX80HY*	BX71JI*	BX80JI*	BX90JI*	BX100JI*	BX71JK*
BX80JK*	BX90JK*	BX100JK*	BX71JL*	BX80JL*	BX90JL*	BX100JL*
BX31JP*	BX35JP*	BX40JP*	BX45JP*	BX50JP*	BX56JP*	BX63JP*
BX71JP*	BX80JP*	BX90JP*	BX71JZ*	BX80JZ*	BX90JZ*	BX100JZ*
BX71KA*	BX80KA*	BX90KA*	BX100KA*	BX71KB*	BX80KB*	BX90KB*
BX100KB*						
Response Delay		N/A				
Resistance to Fire class		F300 (tested to 300°C, 120mins)				
Motor Insulation/Temp. rise		Class H/F				
Ancillaries		Mounting Brackets, Matching Flange, Flexible Connector (400°C), Fan Guard, Inlet Cone, Backdraught Damper, Attenuators, Anti-vibration Mounts, Roof Cowl, Frequency Converter (VSD), Bird Beak Outlet Cowl, Axial Skid and Shaft Cover Plate				
BSRIA reports 101740/1, 100836/9, 104343-5 and 104343-6 refers						

The * denotes that these models can be combined to form AXT, a run and standby fan, or AXC, a contra rotating fan, or AXJ, axial fan for jet fan application variants. The prefix AXT or AXC or AXJ replaces the single fan prefix AX as appropriate. Similarly for the BX range the coding will change to BXC for a short cased contra rotating fan. For the specific applications of skid mounted and plate mounted fans the base code AXH or AXV replaces the single fan prefix AX as appropriate. The table given in ANNEX A gives an example of the fan codes.

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No. 0086 CPR 741804

BS EN 12101-3:2015- Powered smoke and heat exhaust ventilators.

Smoke Axus Circular - Long Cased Axial Fixed Pitch Steel						
AX63AY*	AX71AY*	AX80AZ*	AX90AZ*	AX100AZ*	AX112BA*	AX125BA*
AX140BA*	AX150BA*	AX160BA*	AX63BC*	AX71BC*	AX80BD*	AX90BD*
AX100BD*	AX112BE*	AX125BE*	AX140BE*	AX150BE*	AX160BE*	AX63LO*
AX71LO*	AX63LP*	AX71LP*	AX63LQ*	AX71LQ*	AX63LR*	AX71LR*
AX63LS*	AX71LS*	AX63LT*	AX71LT*	AX63LU*	AX71LU*	AX63LV*
AX71LV*	AX63LW*	AX71LW*	AX63LX*	AX71LX*	AX80LY*	AX90LY*
AX100LY*	AX112LY*	AX80LZ*	AX90LZ*	AX100LY*	AX112LY*	AX80LZ*
AX90LZ*	AX100LZ*	AX112LZ*	AX80MA*	AX90MA*	AX100MA*	AX112MA*
AX80MB*	AX90MB*	AX100MB*	AX112MB*	AX80MC*	AX90MC*	AX100MC*
AX112MC*	AX80MC*	AX90MC*	AX100MC*	AX112MC*	AX80MD*	AX90MD*
AX100MD*	AX112MD*	AX80ME*	AX90ME*	AX100ME*	AX112ME*	AX80MG*
AX90MG*	AX100MG*	AX112MG*	AX80MH*	AX90MH*	AX100MH*	AX112MH*
AX80MI*	AX90MI*	AX100MI*	AX112MI*			
Smoke Axus Circular - Short Cased Axial Fixed Pitch Steel						
BX63AY*	BX71AY*	BX80AZ*	BX90AZ*	BX100AZ*	BX112BA*	BX125BA*
BX140BA*	BX150BA*	BX160BA*	BX63BC*	BX71BC*	BX80BD*	BX90BD*
BX100BD*	BX112BE*	BX125BE*	BX140BE*	BX150BE*	BX160BE*	
Response Delay		N/A				
Resistance to Fire class		F300 (tested to 300°C, 120mins)				
Motor Insulation/Temp. rise		Class H/F				
Ancillaries		Mounting Brackets, Matching Flange, Flexible Connector (400°C), Fan Guard, Inlet Cone, Backdraught Damper, Attenuators, Anti-vibration Mounts, Roof Cowl, Frequency Converter (VSD), Bird Beak Outlet Cowl, Axial Skid and Shaft Cover Plate				
BSRIA reports 18415B/1, 18415B/2, 57117/25, 60547/3, 61016/2 Edition 2, 100836/9, 104343-1, 104343-2, 104343-5 and 104343-6 refer.						

The * denotes that these models can be combined to form AXT, a run and standby fan, or AXC, a contra rotating fan, or AXJ, axial fan for jet fan application variants. The prefix AXT or AXC or AXJ replaces the single fan prefix AX as appropriate. Similarly for the BX range the coding will change to BXC for a short cased contra rotating fan. For the specific applications of skid mounted and plate mounted fans the base code AXH or AXV replaces the single fan prefix AX as appropriate. The table given in ANNEX A gives an example of the fan codes.

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UKCA Certificate of Constancy of Performance

No. 0086 CPR 741804

BS EN 12101-3:2015 - Powered smoke and heat exhaust ventilators.

Smoke Axus Circular - Variable Pitch Steel						
AX80EG*	AX80FC*	AX80FD*	AX90EG*	AX90FC*	AX90FD*	AX100EG*
AX100FC*	AX100FD*	AX100CV*	AX112EG*	AX112FC*	AX112FD*	AX112CV*
AX125EG*	AX125FC*	AX125FD*	AX125CV*	AX140EG*	AX140FC*	AX140FD*
AX140CV*	AX150EG*	AX150FC*	AX150FD*	AX150CV*	AX160EG*	AX160FC*
AX160FD*	AX160CV*	AX140EE*	AX140EF*	AX150EE*	AX150EF*	AX160EE*
AX160EF*						
Response Delay	N/A					
Resistance to Fire class	F400 (tested to 400°C, 120mins)					
Motor Insulation/Temp. rise	Class H/F					
Ancillaries	Mounting Brackets, Matching Flange, Flexible Connector (400°C), Fan Guard, Inlet Cone, Backdraught Damper, Attenuators, Anti-vibration Mounts, Roof Cowls, Bird Beak Outlet Cowl, Axial Skid and Shaft Cover Plate.					
BSRIA reports 19416B/1, 59397/3 and 104343-1 refer.						

The * denotes that these models can be combined to form AXT, a run and standby fan, or AXC, a contra rotating fan, variants. The prefix AXT or AXC replaces the single fan prefix AX as appropriate. Similarly for the BX range the coding will change to BXC for a short cased contra rotating fan. For the specific applications of skid mounted and plate mounted fans the base code AXH or AXV replaces the single fan prefix AX as appropriate. The tables given on ANNEX A gives an example of the fan codes.

Smoke Axus Circular - Fixed Pitch Steel						
AX31AV*	AX35AW*	AX40AW*	AX45AW*	AX50AW*	AX56BB*	AX56AX*
AX63BC*	AX63AY*	AX71BC*	AX71AY*	AX80BD*	AX80AZ*	AX90BD*
AX90AZ*	AX100BD*	AX100AZ*	AX112BE*	AX112BA*	AX125BE*	AX125BA*
AX140BE*	AX140BA*	AX150BE*	AX150BA*	AX160BE*	AX160BA*	AX63LO*
AX71LO*	AX63LP*	AX71LP*	AX63LQ*	AX71LQ*	AX63LR*	AX71LR*
AX63LS*	AX71LS*	AX63LT*	AX71LT*	AX63LU*	AX71LU*	AX63LV*
AX71LV*	AX63LW*	AX71LW*	AX63LX*	AX71LX*	AX80LY*	AX90LY*
AX100LY*	AX112LY*	AX80LZ*	AX90LZ*	AX100LY*	AX112LY*	AX80LZ*
AX90LZ*	AX100LZ*	AX112LZ*	AX80MA*	AX90MA*	AX100MA*	AX112MA*
AX80MB*	AX90MB*	AX100MB*	AX112MB*	AX80MC*	AX90MC*	AX100MC*
AX112MC*	AX80MC*	AX90MC*	AX100MC*	AX112MC*	AX80MD*	AX90MD*
AX100MD*	AX112MD*	AX80ME*	AX90ME*	AX100ME*	AX112ME*	AX80MG*
AX90MG*	AX100MG*	AX112MG*	AX80MH*	AX90MH*	AX100MH*	AX112MH*
AX80MI*	AX90MI*	AX100MI*	AX112MI*			
Response Delay	N/A					
Resistance to Fire class	F400 (tested to 400°C, 120mins)					
Motor rating	Class H/F					
Ancillaries	Mounting Brackets, Matching Flange, Flexible Connector (400°C), Fan Guard, Inlet Cone, Backdraught Damper, Attenuators, Anti-vibration Mounts, Roof Cowls, Frequency Converter (VSD), Bird Beak Outlet Cowl, Axial Skid and Shaft Cover Plate					
BSRIA reports 19416B/2, 59397/3, 60547/1, 61016/1, 61430/1, 104343-1 and 104343-2 refer.						

The * denotes that these models can be combined to form AXT, a run and standby fan, or AXC, a contra rotating fan, or AXJ, axial fan for jet fan application variants. The prefix AXT or AXC or AXJ replaces the single fan prefix AX as appropriate. Similarly for the BX range the coding will change to BXC for a short cased contra rotating fan. For the specific applications of skid mounted and plate mounted fans the base code AXH or AXV replaces the single fan prefix AX as appropriate. The table given in ANNEX A gives an example of the fan codes.

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No. 0086 CPR 741804

BS EN 12101-3:2015 - Powered smoke and heat exhaust ventilators.

SQUIF inline centrifugal fans	Models					
	SQF41-1	SQF41-3	SQF42-3	SQF43-1	SQF43-3	SQF44
	SQF45	SQF46	SQF61	SQF62	SQF63	SQF64
Response Delay	N/A					
Resistance to Fire class	F400 (tested to 400°C, 120mins)					
Motor Insulation/Temp. rise	Class F/B					
Ancillaries	Attenuators, High Temperature Flexible Connectors, Fan Guards, and Roof Cows.					
BSRIA reports 59397/1, 59397/2 , 59397/3 and 18415B/3 refer.						

SQUIF twin inline centrifugal fans	Models					
	SQFT41-1	SQFT41-3	SQFT42-3	SQFT43-1	SQFT43-3	SQFT44
	SQFT45	SQFT46	SQFT61	SQFT62	SQFT63	SQFT64
Response Delay	N/A					
Resistance to Fire class	F400 (tested to 400°C, 120mins)					
Motor Insulation/Temp. rise	Class F/B					
Ancillaries	Attenuators, High Temperature Flexible Connectors, and Fan Guards.					
BSRIA reports 59397/1, 59397/2 , 59397/3 and 18415B/3 refer.						

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UKCA Certificate of Constancy of Performance

No. 0086 CPR 741804

BS EN 12101-3:2015 - Powered smoke and heat exhaust ventilators.

SVTC Axus Car Park Fans	Models	
	SVTC-100	SVTC-50
	SVTC-100G	SVTC-50G
	SVTC-100J	SVTC-50J
	SVTC-100T8	SVTC-50T8
	SVTC-100T8G	SVTC-50T8G
	SVTC-100T8J	SVTC-50T8J
Response Delay	N/A	
Resistance to Fire class	F300 (tested to 300°C, 120mins)	
Motor Insulation/Temp. rise	Class H/F	
Ancillaries	Craig & Derricott 20 A isolator and Santon isolator SBC 135/27 KG-1K6K	
BSRIA reports 40135/2 and 57117/22 refer.		

SVT Axus Car Park Fans	Models	
	SVT2-1A	SVT2-2A
	SVT2-1B	SVT2-2B
	SVT2-1C	SVT2-2C
	SVT2-1D	SVT2-2D
	SVT2-1E	SVT2-2E
	SVT2-3EG/J	
Response Delay	N/A	
Resistance to Fire class	F300 (tested to 300°C, 120mins)	
Motor rating	Class H/F	
Ancillaries	Outlet diffusers, Fan Guard, Craig & Derricott 20 A Isolator and Santon Isolator SBC 135/27 KG-1K6K and Frequency Converter (VSD)	
BSRIA reports 19416B/4, 40135/2, 52454-1, 57117/28 and 100836/8 refer.		

IFC Axus Car Park Fans	Models		
	IFC-31	IFC-35	IFC-40
Response Delay	N/A		
Resistance to Fire class	F300 (tested to 300°C, 120mins)		
Motor rating	Class H/F		
Ancillaries	Inlet Fan Guard, attenuators, outlet diffusers, AV Mounts and mounting brackets- Complete as Standard. Craig & Derricott 20 A Isolator and Santon Isolator SBC 135/27 KG-1K6K optional, Frequency Converter (VSD)		
BSRIA reports 61247/1, 61247/2, 100836/7 and 100836/9 refer.			

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BS EN 12101-3:2015 - Powered smoke and heat exhaust ventilators.

SVTC8 Axis Car Park Fans	Models	
	SVTC8-100	SVTC8-50
	SVTC8-100G	SVTC8-50G
	SVTC8-100J	SVTC8-50J
	SVTC8-100T8	SVTC8-50T8
	SVTC8-100T8G	SVTC8-50T8G
	SVTC8-100T8J	SVTC8-50T8J
	Response Delay	N/A
Resistance to fire Class	F400 (tested to 400°, 120mins)	
Motor Insulation/ Temp Rise	Class H/F	
Ancillaries	Craig & Derricott Isolator	
BSRIA report 59108/3		

SVT28 Axis Car Park Fans	Models	
	SVT28-1A	SVT28-2A
	SVT28-1B	SVT28-2B
	SVT28-1C	SVT28-2C
	SVT28-1D	SVT28-2D
	SVT28-1E	SVT28-2E
	SVT28-1AG/J	SVT28-2AG/J
	SVT28-1BG/J	SVT28-2BG/J
	SVT28-1CG/J	SVT28-2CG/J
	SVT28-1DG/J	SVT28-2DG/J
	SVT28-1EG/J	SVT28-2EG/J
Response Delay	N/A	
Resistance to fire Class	F400 (tested to 400°, 120mins)	
Motor Insulation/ Temp Rise	Class H/F	
Ancillaries	Fan Guard and Craig & Derricott Isolator	
BSRIA report 59108/4		

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IFC Axus Car Park Fans	Models		
	IFC8-31	IFC8-35	IFC8-40
Response Delay	N/A		
Resistance to Fire class	F400 (tested to 400°C, 120mins)		
Motor rating	Class H/F		
Ancillaries	Inlet Fan Guard, attenuators, outlet diffusers, AV Mounts and mounting brackets- Complete as Standard. Craig & Derricott 20 A Isolator and Santon Isolator SBC 135/27 KG-1K6K optional.		
BSRIA reports 61430/2 refer.			

NVU Dual Purpose Roof Mounted Vertical Upblast fans	Models					
	NVU225-2F8	NVU250-2F8	NVU280-2F8	NVU315-2F8	NVU315-4F8	NVU355-4F8
	NVU400-4F8	NVU450-4F8	NVU500-4F8	NVU560-4F8	NVU630-4F8	NVU225-2F8J
	NVU250-2F8J	NVU315-4F8J	NVU355-4F8J			
Response Delay	N/A					
Resistance to Fire class	F400 (tested to 400°C, 120mins)					
Motor Insulation/Temp. rise	Class F					
Ancillaries	Frequency converter reference ES10 and EM16 by Teco, Switch type A 105/10.8600-IP55-RU reference 0541861902 by Merz, Terminal box reference DK 0400 G and K 9100 G and K 9060 G by Hensel					
APPLUS report 20/20719-768 refers.						

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No. 0086 CPR 741804

Sample Coding for Smoke AXUS Circular Ranges.

The Codes shown below are to provide additional information for clarification purposes.

AX100AA-/*41A7								
	AX	100	AA	-/*	4	1	A	7
	1	2	3		4	5	6	7
1	Axus Long Cased Axial							
2	Case diameter in cm							
3	Impeller specification reference							
4	Motor speed in poles							
5	Impeller blade angle reference							
6	Impeller material							
	A= Aluminium							
	S=Steel							
7	Operating Temperature							
	7= 300° C for 2 hours							
	8= 400° C for 2 hours							

BX100AA- 41A7								
	BX	100	AA	-	4	1	A	7
	1	2	3		4	5	6	7
1	Axus Short Cased axial							
2	Case diameter in cm							
3	Impeller specification reference							
4	Motor speed in poles							
5	Impeller blade angle reference							
6	Impeller material							
	A= Aluminium							
	S=Steel							
7	Operating Temperature							
	7= 300° C for 2 hours							
	8= 400° C for 2 hours							

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Sample Coding for Smoke AXUS Circular Ranges.

The Codes shown below are to provide additional information for clarification purposes.

SX56AA-/*41A7							
SX	56	AA	-/*	4	1	A	7
1	2	3		4	5	6	7
1	Axus Pad Mounted Axial						
2	Case diameter in cm						
3	Impeller specification reference						
4	Motor speed in poles						
5	Impeller blade angle reference						
6	Impeller material						
	A= Aluminium						
	S=Steel						
7	Operating Temperature						
	7= 300° C for 2 hours						
	8= 400° C for 2 hours						

AXC100AA-/*41A7T										
AX	C	100	AA	-/*	4	1	A	7	T	
1	2	3	4		5	6	7	8	9	
1	Axus Circular axial									
2	C- Contra or Concurrent, H- Horizontal Skid Configuration, V- Vertical plate configuration									
	T- Run/Standby									
	J- Jet Fan									
3	Case diameter in cm									
4	Impeller specification reference									
5	Motor speed in poles									
6	Impeller blade angle reference									
7	Impeller material									
	A= Aluminium									
	S=Steel									
8	Operating Temperature									
	7= 300° C for 2 hours									
	8= 400° C for 2 hours									
9	Other options (combinations possible)									
	T=Two speed (full and half)									
	Z=Access door									

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Sample Coding for Smoke AXUS Circular Ranges.

The Codes shown below are to provide additional information for clarification purposes.

AX125BA-/*7IS8										
AX	125	BA	-/*	7	1	S	8			
1	2	3		4	5	6	7			
1	Axus Long cased axial fan									
2	Case diameter in cm									
3	Impeller specification reference									
4	Motor speed in poles									
	7=6 pole 60Hz, 5=4 pole 60Hz									
	3=2pole 60Hz, 9=8 pole 60Hz									
5	Impeller blade angle reference									
6	Impeller material									
	A= Aluminium									
	S=Steel									
7	Operating Temperature									
	7= 300°C for 2 hours									
	8= 400°C for 2 hours									



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Typical Coding for Smoke AXUS Circular Ranges for Civil Defence Contracts.

The codes shown below are to provide additional information for clarification purposes.

AX100AA-/*47						
	AX	100	AA	-/*	4	7
	1	2	3		4	5
1	Axus Long Cased Axial					
2	Case diameter in cm					
3	Impeller specification reference					
4	Motor speed in poles					
5	Operating Temperature					
	7= 300°C for 2 hours					
	8= 400°C for 2 hours					

SX56AA-/*47						
	SX	56	AA	-/*	4	7
	1	2	3		4	5
1	Axus Pad Mounted Axial					
2	Case diameter in cm					
3	Impeller specification reference					
4	Motor speed in poles					
5	Operating Temperature					
	7= 300°C for 2 hours					
	8= 400°C for 2 hours					

AX125BA-/*47						
	AX	125	BA	-/*	4	7
	1	2	3		4	5
1	Axus Long Cased axial					
2	Case diameter in cm					
3	Impeller specification reference					
4	Motor speed in poles					
5	Operating Temperature					
	7= 300°C for 2 hours					
	8= 400°C for 2 hours					

* Denotes Guide Vanes, - Denotes without Guide Vanes.

BX100AA-/*47						
	BX	100	AA	-/*	4	7
	1	2	3		4	5
1	Axus Short Cased axial					
2	Case diameter in cm					
3	Impeller specification reference					
4	Motor speed in poles					
5	Operating Temperature					
	7= 300°C for 2 hours					
	8= 400°C for 2 hours					

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