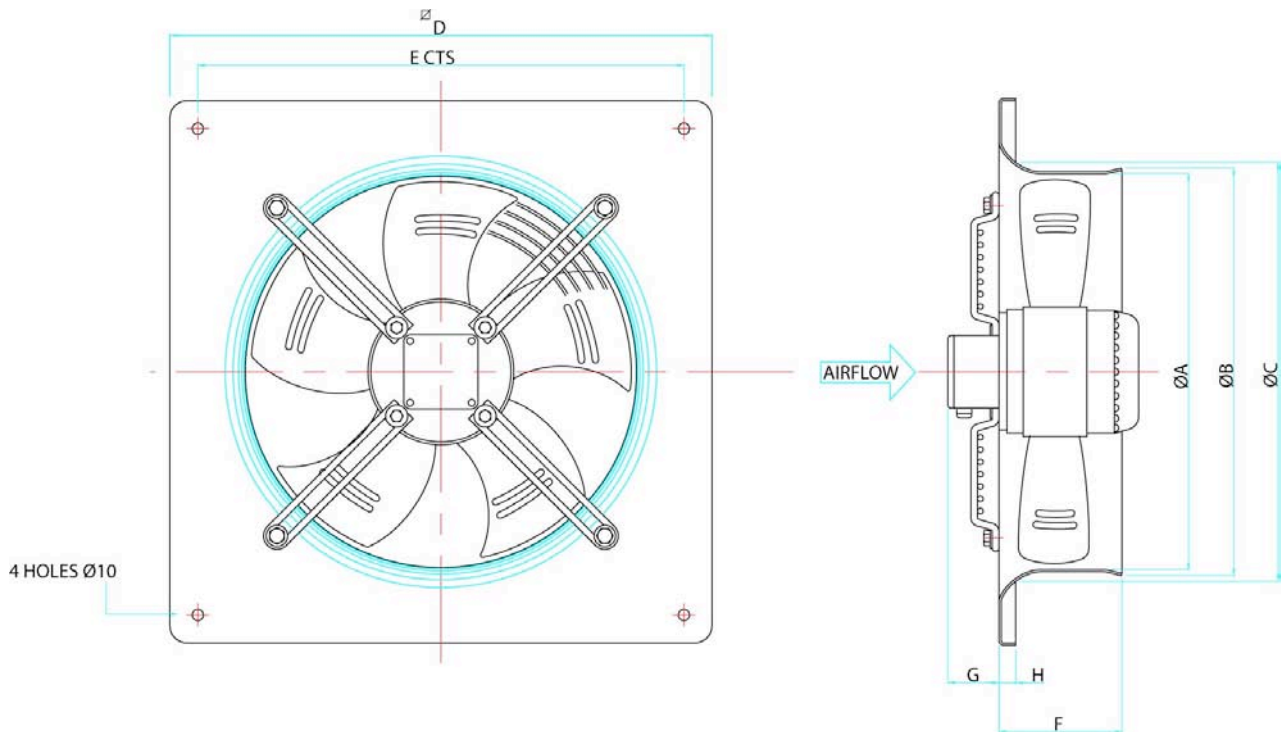
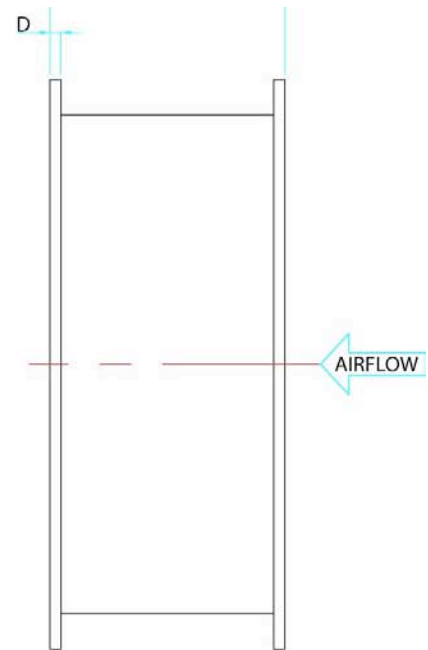
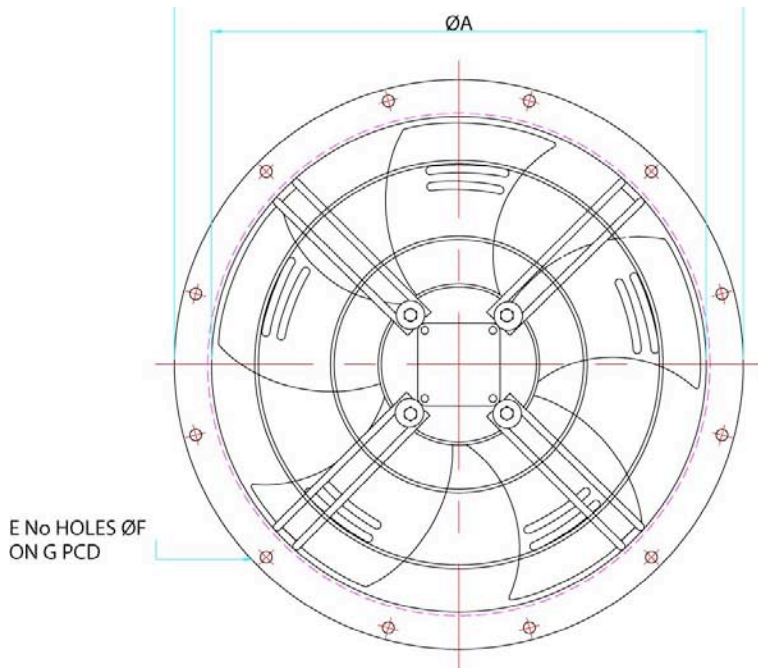


HPA, HCA & HGA Axial Flow Fans Installation and Maintenance Instructions

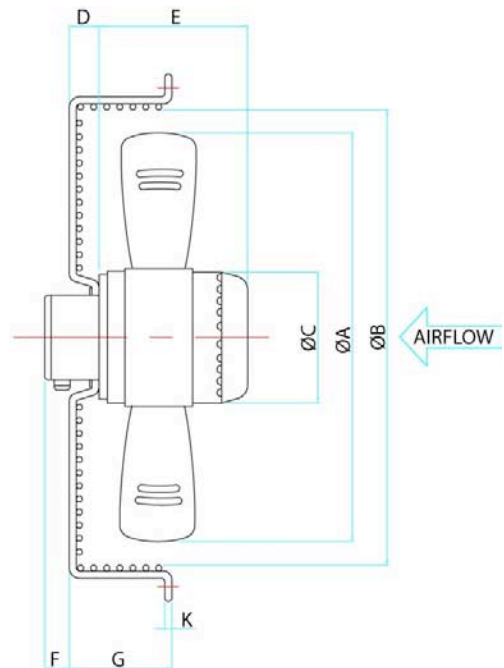
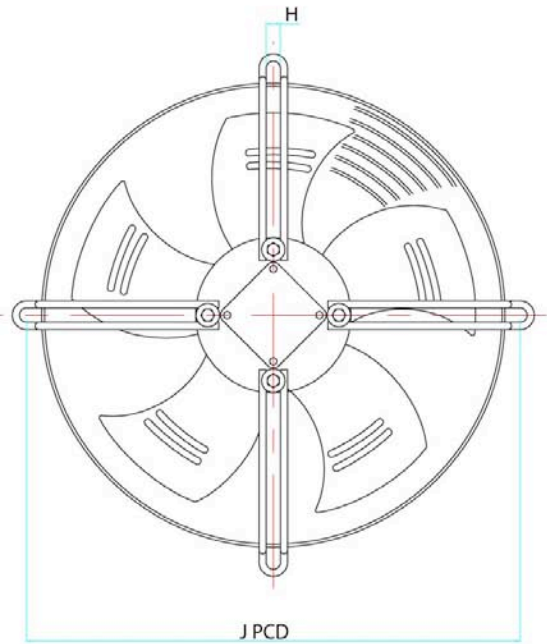
THESE INSTRUCTIONS MUST BE READ FULLY BEFORE COMMENCING INSTALLATION



Code	A	B	C	D	E	F	G	H	Weight kg
HPA200/ * - * A	200	210	215	312	260	52	60	15	2.5
HPA250/ * - * A	250	260	265	370	320	90	60	15	3
HPA315/ * - * A	315	325	360	430	380	90	60	15	3.3
HPA350/ * - * A	350	360	395	485	435	90	60	15	4.9
HPA400/ * - * A	400	410	450	540	490	110	60	15	7.2
HPA450/ * - * A	450	460	500	575	535	110	60	15	7.2
HPA500/ * - * A	500	510	560	655	615	115	60	15	9.5
HPA560/ * - * A	560	575	625	725	670	115	60	15	10.5
HPA630/ * - * A	630	645	705	805	750	125	60	20	15
HPA710/ * - * A	710	722	765	850	810	130	135	27	30



Code	A	B	C	D	E	F	G	Weight kg
HCA250/ * - * A	250	306	180	8	8	7	286	3
HCA315/ * - * A	315	382	180	8	8	9.5	356	3.3
HCA350/ * - * A	350	421	180	8	8	9.5	395	4.9
HCA400/ * - * A	400	460	190	9	12	9.5	438	7.2
HCA450/ * - * A	450	515	190	9	12	9.5	487	7.2
HCA500/ * - * A	500	567	250	9	12	9.5	541	9.5
HCA560/ * - * A	560	635	250	9	16	11.5	605	10.5
HCA630/ * - * A	630	705	250	9	16	11.5	674	15



Code	A	B	C	D	E	F	G	H	J	K	Weight kg
HGA250/ * - * A	250	270	92	-	86	-	55	7	320	4	3
HGA315/ * - * A	300	320	92	-	86	-	80	7	360	4	3.3
HGA350/ * - * A	350	370	102	30	104	30	80	9.5	422	5	4.9
HGA400/ * - * A	400	420	102	30	117	30	90	9.5	470	5	7.2
HGA450/ * - * A	450	470	102	30	130	30	90	9.5	522	6	7.2
HGA500/ * - * A	500	520	137	30	129	30	90	10.5	570	6	9.5
HGA560/ * - * A	550	570	137	30	144	30	100	10.5	622	6	10.5
HGA630/ * - * A	630	650	137	30	164	30	100	10	750	7.5	15

1.0 GENERAL

- 1.1 It is important these Installation and Maintenance Instructions are fully adhered to.
- 1.2 Full details of the unit supplied are shown on the product nameplate. If in doubt about any detail contact HYDOR or its agents for clarification.
- 1.3 All electrical installation must be carried out by suitably qualified and competent personnel in accordance with all current statutory requirements.
- 1.4 These instructions cover only the HYDOR product and do not include the supply or installation of any safety equipment that may be required e.g. adequate guarding or protection from rotating parts and proper electrical isolation.
- 1.5 Any declarations made by HYDOR about product installation and safety, are dependent on the fan equipment being used within installations which themselves meet the requirements of the relevant Standards and Directives of your region.
- 1.6 The fan is designed for use in an ambient temperature of up to 55°C and up to 95% relative humidity. The fan is not suitable for corrosive or explosive atmospheres.
- 1.7 The installer should provide easy access to the fan to facilitate future maintenance.
- 1.8 The installer should ensure the fan is adequately supported.
- 1.9 This product is not intended for use by young children or infirm persons unless they have been adequately supervised by a responsible person to ensure that they can use the product safely. Young children should be supervised to ensure that they do not play with the appliance.

2.0 INSTALLATION

WARNING – The fan must be isolated from the power supply during installation and maintenance. The fan must be earthed in accordance with the local regulations.

- 2.1 Upon receipt, the fan equipment should be visually inspected to check for any damage. Ensure that the impeller is free to rotate.
- 2.2 If there are any queries concerning the fan equipment, HYDOR should be contacted prior to the installation.
- 2.3 The fan must be securely mounted in the desired position to suit the application. The fan can be mounted at any angle.
- 2.4 Check the details on the motor rating plate to ensure that the correct power supply (voltage, frequency and phase) is available.
An incorrect power supply will lead to permanent damage to the fan motor.
- 2.5 Refer to the appropriate wiring diagram. Ensure that all earth connections are made.
- 2.6 Means for electrical disconnection must be incorporated in the wiring installation in accordance with the relevant wiring and electrical regulations.
- 2.7 Precaution must be taken to locate the exhaust discharge terminal so as to avoid the backflow of gases into the room from the open flue of gas or other fuel burning appliances.

3.0 START-UP

- 3.1 Before power is supplied to the unit, check that the wiring is correct as per the fan connection diagram.
- 3.2 At initial start-up, check that impeller rotation and airflow direction is correct.
- 3.3 Check that the motor amperage draw does not exceed the nameplate rating.

4.0 FAN MAINTENANCE

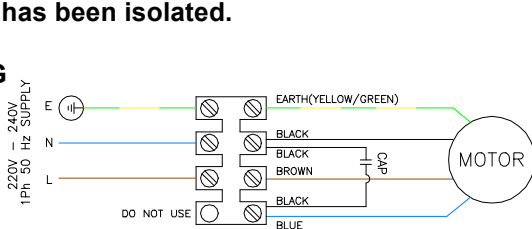
- 4.1 Inspection of the fan at least once every 12 months is recommended to ensure that the motor, fan blades, and supporting guards, are clean. Any build up of dust and deposits on the blades or guards should be removed using a non-abrasive cleaner.
- 4.2 All fastenings should be checked for tightness. In addition, all rotating items should be checked.
- 4.3 Bearings are of the 'sealed for life' type and will not need a detailed inspection.

WARNING – This fan is fitted with an auto-reset thermal contact which switches the fan off in the event of a fault condition.

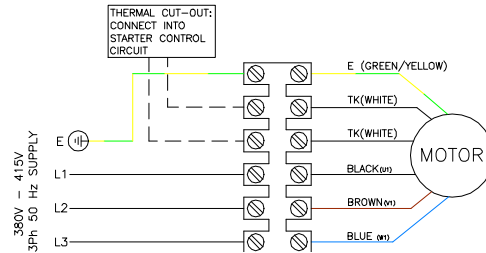
Once the motor cools down the fan may start unexpectedly.

Only a suitably qualified and competent person may carry out maintenance after the electrical supply has been isolated.

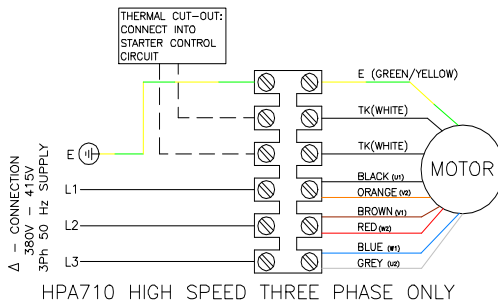
WIRING



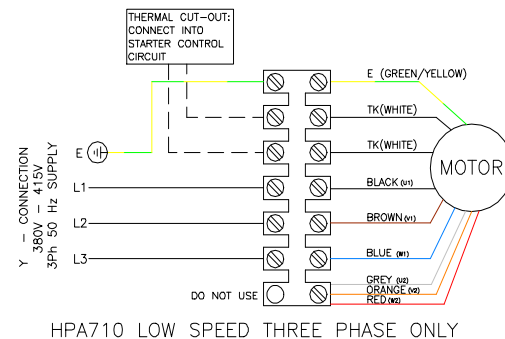
220-240V 1Ph 50Hz



400V 3PH 50Hz



400V 3PH 50Hz



HPA710 LOW SPEED THREE PHASE ONLY

GUARANTEE

HYDOR or its agents will, within a period of 1 year from the date of dispatch from their works, repair or, at its option, replace any goods, which are proven to have defects as a result of defective materials or workmanship. The goods MUST be returned to HYDOR, carriage paid, for examination.

Hydor Ltd.

8 Parkers Close, Downton Business Centre
Downton, Salisbury, Wiltshire
SP5 3RB, UK

TEL: +44 (0) 1725 511422

FAX: +44 (0)1725 512637

email: info@hydor.co.uk

Hydor Ventilation Aust

42-62 Pound Road West
Dandenong South
Vic 3175

TEL: 1300 655 730

FAX: 1300 134 319

email: info@hydor.com.au

Hydor Ventilation SA

11 Ingrid Road
Montague Gardens
Capetown
7441

TEL: +27 (0) 21 552 1077

FAX: +27 (0) 21 552 2797

email: info@hydor.co.za