





 Test Report No:
 QVC/TR/20220910/001
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 Issue Date:
 10/09/2022

ULR No:-	TC910622000000031F		
Applicant Name &	Ace Flow Konzepts Pvt Ltd		
Address:-	68A, New Empire Industrial Estate, Kondivita Lane,		
	J.B.Nagar, Andheri East, Mumb	ai - 400059	
Test Item:-	Cabinet Panel Cooler		
Idontification.	AID COAO IDEA		
Identification:-	AIR-CC40-IP54		
Discipline:-	Electrical	Group:-	Environmental Test
,		0.00p.	Facility
Job order no:-	QVC/SAMPLE/220902/001	Date of receipt:-	02/09/2022
Serial no:-			
Testing Laboratory Name &	QVC Certification Services Pvt.	Ltd.	
Address:	2-B, Civil Lines, Yukti business	centre Near Old sessio	on court
Addiess.	Ambala City-134003, Haryana,		on court,
Test specification:	IEC 60529:2013	THUILD.	**************************************
Test Result/ Statement of	The test item passed the IP 54 (as per test specificatio	n(s).
conformity:	·		• •
Other Aspects:-	1) This test report contain	s the 06 pages.	
	2) The EUT is tested in the	condition, it is receive	d by the laboratory.
	to the submitted test sample and lis		

Tested by:	Reviewed by:	Approved by / Authorized Signatory:	Issued by:
Novem haves	Maushel	Kaustal	as
Naveen Sharma (Testing Engineer)	Ankit Kaushal (Deputy Quality Manager)	Ankit Kaushal (Deputy Quality Manager)	Anil Arora (Quality Manager)
Date: 10/09/2022	Date: 10/09/2022	Date: 10/09/2022	Date: 10/09/2022

testing laboratory this test report is not permitted to be duplicated in extract.







Issue Date: 10/09/2022

	Test Report
	IEC 60529:2013
Degr	rees of Protection provided by Enclosures
	(IP Codes)
Report Reference No.:	QVC/TR/20220910/001
Date of issue:	10/09/2022
Total number of pages:	06
Testing Location:	Onsite At Lab
	QVC Certification Services Pvt. Ltd.
Testing Location Address:	2-B, Civil Lines, Yukti business centre, Near Old session court,
	Ambala City-134003, Haryana, India.
Manufacturer 's Name:	Ace Flow Konzepts Pvt Ltd
	68A, New Empire Industrial Estate, Kondivita Lane,
Manufacturer's Address	J.B.Nagar, Andheri East, Mumbai - 400059
Test specification:-	SIDITUDE TO THE TEAST WATER A TO THE TEAST OF THE TEAST O
Standard:	IEC 60529:2013
Test procedure:	Compliance Report
Non-standard test method:	N/A
Test item description:	Cabinet Panel Cooler
	ACE FLOW
Trade Mark:	Konzepts Pvt. Ltd. > > >>> Engineered to German Precision
Model/ Type reference :	AIR-CC40-IP54
	Operating Pressure at least 6 Bar,
Patings	Cooling Capacity: 849 BTU/hr
Ratings	Temperature Range: -10°C to -20°C

Tested by:	Reviewed by:	Approved by /	Issued by:
		Authorized Signatory:	
Naum Marine	Starshel	Maion gen	a S
Naveen Sharma	Ankit Kaushal	Ankit Kaushal	Anil Arora
(Testing Engineer)	(Deputy Quality Manager)	(Deputy Quality Manager)	(Quality Manager)
Date: 10/09/2022	Date: 10/09/2022	Date: 10/09/2022	Date: 10/09/2022





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Copy of Marking plate/label: No marking provided in product.

TEST ITEM PARTICULARS:	Cabinet Panel Cooler	
Sample Received Condition	Physical condition-Good	
Classification of installation and use	As per Manufacturer's instructions	
Dimension of the Equipment	251mm X Ø 30mm	

Attachments	Attachment desc	cription	No of pages in attachment
Attachment-1	Photo-Docum	nent	01 (Page No. 6)
General remarks:			
The test results presente	d in this report relate only	to the object test	red.
This report shall not be r	eproduced, except in full, v	without the writte	en approval of the issuing testing laboratory.
Possible test case verdic	ts:		
- test case does not apply	to the test object :	N/A	
	a a va avviva na a na t	D (Dass)	

- test case does not apply to the test object :	N/A	
- test object does meet the requirement :	P (Pass)	
- test object does not meet the requirement :	F (Fail)	
Testing:	See Below	
Date of receipt of test item :	02/09/2022	
Date(s) of performance of tests :	05/09/2022 to 07/09/2022	
Laboratory conditions:	See Below	
Ambient Temperature:	15 to 35 °C	
Ambient Humidity:	45 to 75 % Rh	

General Product Information:-

Table - List of Attachments

Cabinet Panel Cooler or Vortex Panel Cooler provide a low-cost method of both purging and cooling electrical and electronic control panels.

These Cabinet coolers come in different sizes of Small Cabinet Coolers and Medium Cabinet Coolers. The Medium Cabinet Coolers range from AIR-CC10-IP54 to AIR-CC40-IP54. The dimension of the all the Medium Cabinet Coolers will remain same. Just the size of the Brass Generator inside the Cabinet Cooler changes according the model. The other all models of Medium Cabinet Cooler will be similar to the model tested above.

LIST OF INSTRUMENTS USED IN TESTING:

S. No.	Instrument Name	Range & L.C
1	Dust Chamber (6X)	1m³, Talcum Powder, Conforms to IEC 60529:2013
2	Water jet hose nozzle (X6) (Jet Nozzle Dia: 12.5mm)	Water delivery rate: 100 L/min
3	Test Probe with Force Gauge	Test Probe Dia: 1mm & Length: 100mm Force Applied: 1 N

Additional information(s):- N/A QVC Certification Services Pvt. Ltd.

Corporate & Head Office:





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Clause	Requirement-Test	Result	Verdict
12	Test for protection against access to hazardous parts indicated by the first characteristic numeral.	Tested for IP5X (Protection against hazardous live parts)	Р
12.1	Access probes to test the protection of person against access to hazardous parts as per table 6 of IEC 60529:2013	As EUT does not contain any electrical connection or part, hence no chance of occurrence of electrical hazard.	Р
12.2	The access probe is pushed or inserted through any openings of the enclosure with the force specified in table 6 of IEC 60529:2013	Tested with 1N force, for IP5X. Probe (1mm dia & 100mm length)	Р
12.3	The protection is satisfactory, if adequate clearance is kept between the access probe and hazardous parts.	As EUT does not contain any electrical connection or part, hence no chance of occurrence of electrical hazard.	Р
13	Tests for protection against solid foreign objects indicated by the first characteristic numeral.	Tested for IP5X (Tested for protection against solid foreign objects)	Р
13.1	Test means and the main test conditions as per table 7 of IEC 60529:2013	Talcum powder is used which is pass through a square meshed sieve the nominal wire dia of 50μm & nominal width of a gap between wire 75 μm. Dust particle size: < 75 μm	Р
13.2	The object probe is pushed against any openings of the enclosure with the force specified in table 7.		N/A
13.3	Acceptance Criteria of Numerals 1, 2, 3, 4: Protection is satisfactory if the full diameter of the probe specified in table 7 does not pass through any opening.		N/A
13.4	Dust test for first characteristic numeral 5 & 6	Dust test is performed as per first numeral 5 (IP5X) Test condition: Enclosure Category 2, Test duration: 8hrs	Р
13.5	Special conditions for first characteristic numeral 5		N/A
13.5.1	Test condition for first characteristic numeral 5		N/A
13.5.2	Acceptance conditions for first characteristic numeral 5: The protection is found satisfactorily if, on inspection, talcum powder has not	No dust particle or traces are found inside the EUT after the test.	Р
	accumulated in a quantity or location such that, as with any other kind of dust, it		Scation Se

QVC Certification Services Pvt. Ltd.





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Clause	Requirement-Test	Result	Verdict
	could interfere with the correct operation of the equipment or impair safety.		
13.6	Special Conditions for first	characteristic numeral 6	N/A
13.6.1	Test condition for first characteristic numeral 6		N/A
13.6.2	Acceptance Conditions for first numeral 6: The protection is satisfactory, if no dust is observable inside the enclosure after the test		N/A
14	Test for protection against water indicated by the second characteristic numeral	Tested for IPX4	Р
14.1	Test means and the main test conditions as per table 8 of IEC 60529:2013	See below	Р
14.2	Test Conditions	See Cl. 14.2.4	
14.2.1	Drip box, Enclosure on turntable		N/A
14.2.2	Drip box, Enclosure in 4 fixed positions of 15' tilt		N/A
14.2.3	Oscillating tube or spray nozzle, 60° from vertical		N/A
14.2.4	Oscillating tube or spray nozzle, 180° from vertical	Test procedure as per Fig 4 Water pressure: 50kPa to 150kPa. Test duration: 10 min	Р
14.2.5	6.3-mm nozzle, tested with a spraying nozzle, distance 2.5 m to 3 m, water flow rate 12.5 L/min		N/A
14.2.6	12.5 -mm nozzle, tested with a spraying nozzle, distance 2.5 m to 3 m, water flow rate 100 L/min		N/A
14.2.7	Temporary immersion between 0.15m and 1m		N/A
14.2.8	Continuous immersion subject to agreement		N/A
14.3	After testing in accordance with requirements of 14.2.1 to 14.2.8, the enclosure shall be inspected for ingress of water.	No ingress of water traces or droplet are found inside the EUT after the test	Р





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Attachment No.1:

PHOTOGRAPHS:



Equipment Under Test (EUT)

*** END OF TEST REPORT***

