

ATEX Assessment Report 19 0206176 dated 15-03-2017

Customer: DELFIN Srl

Order number: 0206176

Test object: Vacuum cleaner ZFRELTREX1/3D-nnn

Evaluation principles:

EN 1127-1:2011	Basic principles and methodology
EN ISO 80079-36:2016	Basic method and requirements
EN ISO 80079-37:2016	Non-electrical type of protection constructional safety "c", control of ignition source "b", liquid immersion "k"

Test laboratory: TÜV CYPRUS Ltd
2 Papaflessa Str., 2235, Latsia, Lefkocia
P.O.Box: 20732 Nicosia 1663

Test location: DELFIN Srl
Strada della Merla 49/A
10036 Settimo Torinese (TO)
ITALY

Date of receipt of the test object: 05/03/2019

Test date: 05/03/2019

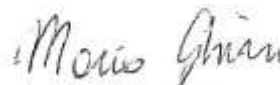
Interpretations: e. g. The test results confirm the compliance of the "equipment" with the requirements of the Evaluation principles mentioned above.

**Compiled
The Inspector:**



Marco Molina

**Approved
The Reviewer:**



Marco Ghisu

This technical report contains the result of the examination of the submitted test sample. A generally valid statement on the quality of the products of the current manufacture cannot be derived therefrom. The reproduction of this technical report in abstracts and the utilization for publication purposes requires the written consent of the test laboratory.

1. Order description:

Assessment and certification for the Vacuum cleaner ZFRELTREX1/3D-nnn.

2. Specification of the test object:

Description:

Mobile three Phases industrial vacuum cleaner model ZFREL with side channel blower on vacuum cleaner head and electrical boxes with start/stop switch, magneto-thermic switch and minimum voltage release. Side channel blower, electrical box and cable glands already ATEX compliant. Standard model with stainless steel container, primary antistatic filter class M and secondary absolute filter class H. The additional accessories that could be used with this cleaner are not covered by this certificate.

Technical data:

	ZFRELTREX1/3D	
Power supply	230/400V 3~ 50Hz	276/480V 3~ 60Hz
Power [kW]	2,6	3,1

Allowable ambient temperature range:

Allowable ambient temperature range	-20°C to +40°C
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Type key:

ZFRELTREX1/3D-nnn

Where nnn indicates a sequential that provides for the variation which do not impact on the ATEX evaluation.

3. Marking of test object:



II 1/3D Ex h IIIC T135°C Da/Dc

4. Details to the evaluation principles:

The above mentioned equipment is tested according the standards on the first sheet.

5. Tests performed:

Standard	Clause	Test
EN ISO 80079-36:2016	8.2.1	Determination of the maximum surface temperature
EN ISO 80079-36:2016	8.3.1	Test for resistance to impact

6. Test documents submitted:

File:	Title:	Pag:	Date:
BOM	ZFRELTREX1-3D	7	2019-03-07
Drawings	Drawings	22	-
Material Datasheet	Material Datasheet	18	-
Declaration of conformity	Dichiarazione di conformita ZFR EX1-3d	1	2019-03-19
Risk analysis	Requisiti sicurezza ZFRELTREX1-3D	60	2019-03-12
Manual for service and maintenance	ZFRELTREX1-3D_EN	34	-
Temperature test report	AR19TEST036	10	2019-03-07
Equipment documents	Equipment documents	35	-
Declaration "nnn"	Dichiarazione sequenziale -nnn	1	-

7. Test result:

The individual tests are documented in the confidential test protocol 19 0206176.

8. Ambient conditions:

Temperature: As specified above

Air humidity: no requirements

9. Picture documentation:

See the test protocol 19 0206176.

10. Measurement equipment used (test in witnessing at Manufacturer facilities):

Certificate of calibration	Manufacturer	Equipment	Device serial number	Measured Value	Calibration Date (last)
Albarubens internal calibration report 8881	AZ Instrument Corp.	Thermometer SD Logger I, II, III AZ 88598	1003923 6	Temperatur	27/09/2018
Albarubens internal calibration report 8883	V & A	Double ways TcK meter I and II VA8060	VA8060 VA10100 2714/VA 1010026 67	Temperatur	13/09/2018
10001/18	ASITA	AS6130/01	1828013 6	Electrical continuity	01/10/2018

11. Notes for the erection and operation:

See the operator and maintenance manual ZFRELTREX1-3D.

12. Routine tests:

None.