

TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive
2014/34/EU

1. **Type Examination Certificate Number:** ITS12ATEX47708X Issue 04
2. **Product:** Conquest SST Style 3778 and 4473
3. **Manufacturer:** Akron Brass
4. **Address:** 343 Venture Blvd, Wooster, Ohio, 44691, USA
5. This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
6. Intertek Testing and Certification Limited, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of the products intended for use in potentially explosive atmospheres given in Annex II of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.
7. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012 & EN 60079-15:2010 except in respect of those requirements referred to within item 14 of the Schedule
8. If the sign "X" is placed after the certificate number, it indicates that the product is subject to the special conditions of use specified in the Schedule to this certificate.
9. This Type Examination Certificate relates only to the design of the specified product and not to specific items subsequently manufactured.
10. The marking of the product shall include the following:



II 3 G Ex nR IIC T6 Gc
-40°C ≤ Ta ≤ +60°C

Certification Officer: _____



M Newman

In accordance with EC NOTICE TO STAKEHOLDERS WITHDRAWAL OF THE UNITED KINGDOM AND EU RULES IN THE FIELD OF INDUSTRIAL PRODUCTS dated 13 March 2020.

This issued certificate - Certificate No: ITS12ATEX47708X

and supporting Technical Construction File underwent a legal transfer of new ownership by signed agreement between the named applicant on this certificate and the 3rd party bodies involved in the transfer from NB0359 to NB2575 on 16 December 2020
16 January 2020

Date: _____

Name: Fabrizio Massei

Position: ATEX Certification Officer

Signature:

Date: 16 December 2020

SCHEDULE:

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11. Description of Equipment or Protective System

The Conquest SST Style 3778 and 4473 is a remote controlled, fixed site vapour mitigation and fire fighting device relying on two motors for elevation and rotation and one motor to control the nozzle spray pattern. The system, which is made in stainless steel, can eject up to two thousand gallons per minute of water or water/foam solution, depending on the type of nozzle fitted. Horizontal and vertical movement is accomplished via the AC gear motor assemblies controlled by a three axis motor drive system. The elevation and rotation system is approximately 432mm wide, 356mm deep and 546mm high when the elevation motor is horizontal and perpendicular to the rotation motor. The nozzle sits on top of the elevation section of the system. The nozzle section is approximately 305mm high, 178mm deep and 254mm wide and incorporates a motor operated mechanism to change the water or water/foam spray pattern from a straight stream to a wide fog. The monitor system also has provision for manual handles on each of the joints in the event that there is an electrical failure.

The following remote controlled monitor is covered under this certificate:

Style 3778 Conquest SST Monitor.

The following components for the Conquest Remote Controlled Monitor are covered under this certificate:

The complete elevation and rotation motor unit comprising the Brother gear motors, motor housing and worm gear assembly is comprised of the following individual elements:

- 2 each -- 1-Phase Brother Induction Gear Motors, 1/6 HP, 115V
- 2 each -- Brother Gear Motor housings, including shaft assemblies, for elevation and rotation motors with attached worm gear section.
- Goose Neck waterway connection
- Mounting Plates

The following remote controlled nozzle is covered under this certificate:

Style 4473 AkroFoam Nozzle

The following components for the remote controlled nozzle are covered under this certificate.

The complete nozzle pattern actuation unit comprising a Brother gear motor, motor housing and spur gear assembly is comprised of the following individual elements:

- 1 each -- 1-Phase Brother Induction Gear Motor, 1/30 HP, 115V
- 1 each -- Brother Gear Motor housing assembly for the nozzle motor including elbow joint and shaft assembly

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12. Report Number

Intertek Report: 103980098CHE-001 dated: 15 January 2020.

13. Conditions of Certification

(a). Special Conditions of Use

- The equipment is subject to a duty cycle limit of which the motors can only be run constantly for no more than 28 minutes, after which the equipment must be allowed 4 hours to cool to ambient temperature before it can be used again.

(b). Conditions of Manufacture

- The equipment shall be tested to ensure the restricted breathing properties of the complete enclosure are viable. Testing shall be carried out as per the requirements of Clause 23.2.3.2.1.2 of EN 60079-15:2010.

14. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) affected by this variation have been identified and assessed in Intertek Report: 100833923MAN-001 dated: July 2013.

15. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
Assembly, Nozzle W/Manual Override, Fixed Baffle Conquest 2198 (3 Pages)	43658	00	02-06
*ID Tag (FM/ATEX) AC Conquest Nozzles 2197, 2198, 2199, 5097, 5098, 5099	B46968	07	07-16
*ID Tag AC Conquest Monitor 3678 (2 pages)	B46969	08	03-18
ID Tag Conquest SST 3778	B45989	06	03-16
ID Tag Akrofoam SST 4473	B46336	06	03-16
Assy 1000 GPM Nozzle AC Conquest 2197 (4 Pages)	D42116	11	04-13
*Mach: Motor Cover AC Conquest 3678	D42153	09	02-19
*Mach: Motor Cover Pattern Actuator 5097, 5098	D42159	07	03-17
Monitor Assembly AC Conquest 3678 (7 Pages)	D42172	17	02-16
S/A Noz W/Override AC Conquest 5098 (5 pages)	D42173	10	04-13
*Assy 1000 GPM Automatic Nozzle AC Conquest 5097 (6 pages)	D42284	11	05-18
*S/A Noz W/Man Override Fixed 2000 GPM W/Improved S.S AC Conquest 2199 (6 Pages)	D44028	08	05-19

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S/A Noz W/Man Override (Auto 2000 GPM W/Improved S.S.) AC Conquest 5099 (5 Pages)	D44364	04	04-13
*Assembly Conquest SST 3778 (11 Pages, 1 to 10 controlled)	D45971	06	06-19
MACH: MOTOR COVER CONQUEST SST 3778 (Sheet 1 of 1)	D45985	02	05-13
ASSY 1000 GPM AKROFOAM STAINLESS STEEL AKROFOAM 4473 (Sheets 1 to 5)	D45996	07	12-14
MACH: MOTOR COVER MOTOR – AKROFOAM SST 4473 (Sheet 1 of 1)	D46144	02	05-13
*Pattern Actuator Sub-Assy AC Conquest 2197, 2198, 2199, 5097, 5098, 5099 (2 Pages)	D46380	02	05-18

Note: An * is included before the title of documents that are new or revised.

16. Details of Certificate changes

Details of Certificate changes Issue ITS12ATEX47708X/1

101334556MAN-001 dated February 2014

- Change of address from “1450 Spruce Street, Wooster, Ohio, 44691, USA” to “343 Venture Blvd, Wooster, Ohio, 44691, USA”.
- To add the following Conquest type and nozzle types to the above certificate:
 1. Conquest 3678 (constructed from brass)
 2. 2197 Fixed Baffle Nozzle (300 to 1000gpm at a pressure of 7 bar, constructed from brass)
 3. 2198 Fixed Baffle Nozzle (1000 to 2000gpm at a pressure of 7 bar, constructed from brass)
 4. 2199 Fixed Baffle Nozzle (1000 to 2000gpm at a pressure of 7 bar, constructed from brass)
 5. 5097 Automatic Nozzle (300 to 1000gpm at a pressure of 7 bar, constructed from brass)
 6. 5098 Automatic Nozzle (500 to 2000gpm at a pressure of 7 bar, constructed from brass)
 7. 5099 Automatic Nozzle (500 to 2000gpm at a pressure of 7 bar, constructed from brass)

Title:	Drawing No.:	Rev. Level:	Date:
ID Tag Conquest SST 3778	45989	04	10-13
ID Tag Akrofoam SST 4473	46336	04	10-13
Monitor Assembly AC Conquest 3678	D42172 (7 Pages)	13	4-13
Pattern Actuator Sub-Assy AC Conquest 2197, 97, 98, 5097, 98, 99	D46380 (2 Pages)	01	4-13
Mach: Motor Cover Pattern Actuator 5097, 5098	D42159	06	4-13
Mach: Motor Cover AC Conquest 3678	D42153	08	4-13
Assy 1000 GPM Nozzle AC Conquest 2197	D42116 (4 Pages)	11	4-13
Assembly, Nozzle W/Manual Override, Fixed Baffle Conquest 2198	43658 (3 Pages)	00	2-06
S/A Noz W/Man Override Fixed 2000 GPM W/Improved S.S AC Conquest 2199	D44028 (6 Pages)	06	4-13
Assy 1000 GPM Automatic Nozzle AC Conquest 5097	D42284 (6 pages)	09	4-13
S/A Noz W/Override AC Conquest 5098	D42173 (5 pages)	10	4-13
S/A Noz W/Man Override (Auto 2000 GPM W/Improved S.S.) AC Conquest 5099	D44364 (5 Pages)	04	4-13
ID Tag (FM/ATEX) AC Conquest Nozzles 2197, 2198, 2199, 5097, 5098, 5099	46968	01	10-13
ID Tag (FM/ATEX) AC conquest Monitor 3678	46969	01	10-13
Assembly Conquest SST 3778	D45971 (11 Pages, 1 to 10 controlled)	03	07-13

Details of Certificate changes Issue 1 (revised)

ITS12ATEX47708X/1 dated 01 April 2014 (re-issued from 14 February 2014 due to typographical error).

Details of Certificate changes Issue 2

102478843CHE-001 dated May 2016. Minor drawing changes and non-technical updates.

Title:	Drawing No.:	Rev. Level:	Date:
ASSY 1000 GPM AKROFOAM STAINLESS STEEL AKROFOAM 4473 (5 pages, 1 to 3 controlled)	D45996	07	12-14
Technical Service Parts Style 4473 Product Stainless Steel Akrofoam Parts List 122955	D45996	07	12-14
Assembly Conquest SST 3778 (11 pages, 1 to 9 controlled)	D45971	05	1-15
Technical Service Parts Style 3778 Product Conquest SST, Parts List Sheet 122973	D45971	05	1-15
ID Tag Conquest SST 3778	B45989	06	03-16
ID Tag Akrofoam SST 4473	B46336	06	03-16
Monitor Assembly AC Conquest 3678 (7 pages)	D42172	16	6-14
Assy 1000 GPM Automatic Nozzle AC Conquest 5097 (6 pages)	D42284	10	09-13
ID Tag (FM/ATEX) AC Conquest Nozzles 2197, 2198, 2199, 5097, 5098, 5099	B46968	06	03-16
ID Tag AC conquest Monitor 3678 (2 pages)	B46969	07	03-16

Details of Certificate changes Issue 3

102653854CHE-002 dated August 2016 Minor drawing changes and non-technical updates.

Title:	Drawing No.:	Rev. Level:	Date:
Monitor Assembly AC Conquest 3678 (7 pages)	D42172	16 to 17	2-16

Details of Certificate changes Issue 4 (This issue)

Minor drawing changes to the scheduled drawings for the equipment.

The following drawings have been updated as part of this variation:

Title:	Drawing No.:	Rev. Level:	Date:
ID Tag AC Conquest Monitor 3678 (2 pages)	B46969	07 to 08	03-16 to 03-18
Mach: Motor Cover AC Conquest 3678	D42153	08 to 09	4-13 to 2-19
Mach: Motor Cover Pattern Actuator 5097, 5098	D42159	06 to 07	4-13 to 03-17
Assy 1000 GPM Automatic Nozzle AC Conquest 5097 (6 pages)	D42284	10 to 11	09-13 to 05-18
S/A Noz W/Man Override Fixed 2000 GPM W/Improved S.S AC Conquest 2199 (6 Pages)	D44028	06 to 07	4-13 to 07-17
S/A Noz W/Man Override Fixed 2000 GPM W/Improved S.S AC Conquest 2199 (6 Pages)	D44028	07 to 08	07-17 to 05-19
Assembly Conquest SST 3778 (11 Pages, 1 to 10 controlled)	D45971	05 to 06	1-15 to 06-19
Pattern Actuator Sub-Assy AC Conquest 2197, 97, 98, 5097, 98, 99 (2 Pages)	D46380	01 to 02	4-13 to 5-18
ID Tag (FM/ATEX) AC Conquest Nozzles 2197, 2198, 2199, 5097, 5098, 5099	B46968	06 to 07	03-16 to 07-16