

### Technical Specification 5UJ07

| No.                           | Description                                                                       | Unit | Quantity | Catalogue No.           |
|-------------------------------|-----------------------------------------------------------------------------------|------|----------|-------------------------|
| <b>Delivery of components</b> |                                                                                   |      |          |                         |
| 1                             | Extinguishing agent FK-5-1-12                                                     | kg   | 5856.4   |                         |
| 2                             | Valve type B0481 without integrated solenoid actuator for 80-litre bottle         | pcs. | 4        | B04814004 or equivalent |
| 3                             | Valve type B0481 without integrated solenoid actuator for 140-litre bottle        | pcs. | 45       | B04814006 or equivalent |
| 4                             | Electromagnetic release device – B0481 – 24VDC /diode/VdS/                        | pcs. | 9        | B04425148 or equivalent |
| 5                             | Pneumatic release device – B0481 - VdS                                            | pcs. | 40       | B04420066 or equivalent |
| 6                             | Check valve for valve type B0481                                                  | pcs. | 45       | VK887870 or equivalent  |
| 7                             | Pneumatic actuator bleed valve/ G 1/8"/VdS                                        | pcs. | 11       | 29730040 or equivalent  |
| 8                             | Pilot hose 500mm /M12x1.5/ internal diameter Ø 1/8" – DN6/VdS                     | pcs. | 34       | B06920213 or equivalent |
| 9                             | Pilot hose 1000mm /M12x1.5/ internal diameter Ø 1/8" – DN6/VdS                    | pcs. | 6        | B06920232 or equivalent |
| 10                            | Pilot hose adapter /M12x1,5/ G1/8" / with O ring                                  | pcs. | 80       | 29510006 or equivalent  |
| 11                            | Control pressure gauge - FK-5-1-12 / NC-50 bar / M10x1 / scale 0-60Bar / CE / VdS | pcs. | 49       | 29720174 or equivalent  |
| 12                            | Nippel 3/4" working pressure 80 bar                                               | pcs. | 1        |                         |
| 13                            | Nippel 1" working pressure 80 bar                                                 | pcs. | 5        |                         |
| 14                            | Nippel 1 1/4" working pressure 80 bar                                             | pcs. | 9        |                         |
| 15                            | Nippel 1 1/2" working pressure 80 bar                                             | pcs. | 48       |                         |
| 16                            | Nippel 2" working pressure 80 bar                                                 | pcs. | 87       |                         |
| 17                            | Elbow 2" working pressure 80 bar                                                  | pcs. | 41       |                         |
| 18                            | Reducing nippel 1" x 3/4" working pressure 80 bar                                 | pcs. | 1        |                         |
| 19                            | Reducing nippel 1 1/2" x 1" working pressure 80 bar                               | pcs. | 2        |                         |
| 20                            | Reducing nippel 1 1/2" x 1 1/4" working pressure 80 bar                           | pcs. | 3        |                         |
| 21                            | Reducing nippel 2" x 1 1/2" working pressure 80 bar                               | pcs. | 5        |                         |
| 22                            | Nozzle - FK-5-1-12 / Rc 2" / 360° nozzle, Ø 10.6 / VdS                            | pcs. | 1        | B04614631 or equivalent |

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| 23  | Nozzle - FK-5-1-12 / Rc 2" / 360° nozzle, Ø 9.7 / VdS  | pcs. | 2        | B04614613 or equivalent |
| 24  | Nozzle - FK-5-1-12 / Rc 2" / 360° nozzle, Ø 9.5 / VdS  | pcs. | 2        | B04614609 or equivalent |
| 25  | Nozzle - FK-5-1-12 / Rc 1½" / 360° nozzle, Ø 8.6 / VdS | pcs. | 1        | B04614517 or equivalent |
| 26  | Nozzle - FK-5-1-12 / Rc 1½" / 360° nozzle, Ø 8.3 / VdS | pcs. | 1        | B04614511 or equivalent |
| 27  | Nozzle - FK-5-1-12 / Rc 1½" / 360° nozzle, Ø 7.6 / VdS | pcs. | 1        | B04616530 or equivalent |
| 28  | Nozzle - FK-5-1-12 / Rc 1½" / 360° nozzle, Ø 7.5 / VdS | pcs. | 2        | B04616529 or equivalent |
| 29  | Nozzle - FK-5-1-12 / Rc 1½" / 360° nozzle, Ø 7.4 / VdS | pcs. | 1        | B04616528 or equivalent |
| 30  | Nozzle - FK-5-1-12 / Rc 1½" / 360° nozzle, Ø 7.3 / VdS | pcs. | 3        | B04616527 or equivalent |
| 31  | Nozzle - FK-5-1-12 / Rc 1½" / 360° nozzle, Ø 7.2 / VdS | pcs. | 2        | B04616526 or equivalent |
| 32  | Nozzle - FK-5-1-12 / Rc 1½" / 360° nozzle, Ø 7.0 / VdS | pcs. | 3        | B04616524 or equivalent |
| 33  | Nozzle - FK-5-1-12 / Rc 1½" / 360° nozzle, Ø 6.8 / VdS | pcs. | 2        | B04616522 or equivalent |
| 34  | Nozzle - FK-5-1-12 / Rc 1½" / 180° nozzle, Ø 6.7 / VdS | pcs. | 1        | B04616521 or equivalent |
| 35  | Nozzle - FK-5-1-12 / Rc 1½" / 360° nozzle, Ø 6.6 / VdS | pcs. | 1        | B04616520 or equivalent |
| 36  | Nozzle - FK-5-1-12 / Rc 1½" / 360° nozzle, Ø 6.5 / VdS | pcs. | 2        | B04616519 or equivalent |
| 37  | Nozzle - FK-5-1-12 / Rc 1½" / 360° nozzle, Ø 6.4 / VdS | pcs. | 2        | B04616518 or equivalent |
| 38  | Nozzle - FK-5-1-12 / Rc 1½" / 360° nozzle, Ø 6.3 / VdS | pcs. | 3        | B04616517 or equivalent |
| 39  | Nozzle - FK-5-1-12 / Rc 1½" / 360° nozzle, Ø 6.2 / VdS | pcs. | 2        | B04616516 or equivalent |
| 40  | Nozzle - FK5-1-12 / Rc 1½" / 360° nozzle, Ø 6.1 / VdS  | pcs. | 1        | B04616515 or equivalent |
| 41  | Nozzle - FK5-1-12 / Rc 1½" / 360° nozzle, Ø 6.0 / VdS  | pcs. | 6        | B04616514 or equivalent |
| 42  | Nozzle - FK5-1-12 / Rc 1½" / 360° nozzle, Ø 5.9 / VdS  | pcs. | 2        | B04616513 or equivalent |
| 43  | Nozzle - FK5-1-12 / Rc 1½" / 360° nozzle, Ø 5.7 / VdS  | pcs. | 3        | B04616511 or equivalent |
| 44  | Nozzle - FK5-1-12 / Rc 1½" / 360° nozzle, Ø 5.5 / VdS  | pcs. | 3        | B04616509 or equivalent |

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| 45                                                   | Nozzle - FK5-1-12 / Rc 1½" / 360° nozzle, Ø 5.4 / VdS                             | pcs. | 2        | B04616508 or equivalent |
| 46                                                   | Nozzle - FK5-1-12 / Rc 1½" / 180° nozzle, Ø 5.3 / VdS                             | pcs. | 1        | B04616507 or equivalent |
| 47                                                   | Nozzle - FK5-1-12 / Rc 1½" / 360° nozzle, Ø 5.1 / VdS                             | pcs. | 1        | B04616505 or equivalent |
| 48                                                   | Nozzle - FK5-1-12 / Rc 1½" / 180° nozzle, Ø 5.0 / VdS                             | pcs. | 1        | B04616538 or equivalent |
| 49                                                   | Nozzle - FK5-1-12 / Rc 1½" / 180° nozzle, Ø 4.7 / VdS                             | pcs. | 1        | B04616535 or equivalent |
| 50                                                   | Nozzle - FK5-1-12 / Rc 1¼" / 360° nozzle, Ø 7.1 / VdS                             | pcs. | 1        | B04614424 or equivalent |
| 51                                                   | Nozzle - FK5-1-12 / Rc 1¼" / 180° nozzle, Ø 6.2 / VdS                             | pcs. | 1        | B04614445 or equivalent |
| 52                                                   | Nozzle - FK5-1-12 / Rc 1¼" / 360° nozzle, Ø 5.8 / VdS                             | pcs. | 1        | B04616423 or equivalent |
| 53                                                   | Nozzle - FK5-1-12 / Rc 1¼" / 360° nozzle, Ø 5.5 / VdS                             | pcs. | 1        | B04616420 or equivalent |
| 54                                                   | Nozzle - FK5-1-12 / Rc 1¼" / 180° nozzle, Ø 5.0 / VdS                             | pcs. | 1        | B04616441 or equivalent |
| 55                                                   | Nozzle - FK5-1-12 / Rc 1¼" / 180° nozzle, Ø 4.8 / VdS                             | pcs. | 1        | B04616439 or equivalent |
| 56                                                   | Nozzle - FK5-1-12 / Rc 1¼" / 360° nozzle, Ø 4.6 / VdS                             | pcs. | 1        | B04616411 or equivalent |
| 57                                                   | Nozzle - FK5-1-12 / Rc 1¼" / 360° nozzle, Ø 4.4 / VdS                             | pcs. | 1        | B04616409 or equivalent |
| 58                                                   | Nozzle - FK5-1-12 / Rc 1¼" / 360° nozzle, Ø 5.1 / VdS                             | pcs. | 1        | B04616505 or equivalent |
| 59                                                   | Nozzle - FK5-1-12 / Rc 1" / 360° nozzle Ø 3.1 / VdS                               | pcs. | 3        | B04616300 or equivalent |
| 60                                                   | Nozzle - FK5-1-12 / Rc 1¾" / 180° nozzle, Ø 2,8 / VdS                             | pcs. | 1        | B04616223 or equivalent |
| <b>Delivery of components for a spare bottle set</b> |                                                                                   |      |          |                         |
| 1                                                    | Extinguishing agent FK-5-1-12                                                     | kg   | 1200     |                         |
| 2                                                    | Valve type B0481 without integrated solenoid actuator for 80-litre bottle         | pcs. | 1        | B04814004 or equivalent |
| 3                                                    | Valve type B0481 without integrated solenoid actuator for 140-litre               | pcs. | 10       | B04814006 or equivalent |
| 4                                                    | Electromagnetic release device - B0481 - 24 VDC / diode /VdS / LPCB               | pcs. | 1        | B04425148 or equivalent |
| 5                                                    | Pneumatic release device – B0481 - VdS                                            | pcs. | 9        | B04420066 or equivalent |
| 6                                                    | Control pressure gauge - FK5-1-12 / NC -50 bar/ M10x1 / Scale 0-60 Bar / CE / VdS | pcs. | 11       | 29720174 or equivalent  |

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| <b>Spare parts and sets</b>               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |          |                           |
| 1                                         | Valve type B0481 without integrated solenoid actuator for 80-litre bottle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | pcs. | 1        | B04814004 or equivalent   |
| 2                                         | Valve type B0481 without integrated solenoid actuator for 140-litre bottle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | pcs. | 5        | B04814006 or equivalent   |
| 3                                         | Electromagnetic release device - B0481 - 24 VDC / diode / VdS / LPCB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | pcs. | 2        | B04425148 or equivalent   |
| 4                                         | Pneumatic release device – B0481 - VdS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | pcs. | 4        | B04420066 or equivalent   |
| 5                                         | Check valve for valve type B0481                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | pcs. | 5        | VK887870 or equivalent    |
| 6                                         | Pneumatic actuator bleed valve / G 1/8" / VdS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | pcs. | 2        | 29730040 or equivalent    |
| 7                                         | Pilot hose 500 mm / M12 x 1.5 / internal diameter Ø1/8" - DN6 / VdS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | pcs. | 4        | B06920213 or equivalent   |
| 8                                         | Pilot hose 1000 mm / M12 x 1.5 / internal diameter Ø1/8" - DN6 / VdS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | pcs. | 2        | B06920232 or equivalent   |
| 9                                         | Pilot hose adapter / M12 x 1.5 / G 1/8" / with O-ring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | pcs. | 15       | 29510006 or equivalent    |
| 10                                        | Control pressure gauge - FK5-1-12 / NC -50 bar/ M10x1 / Scale 0-60 Bar / CE / VdS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | pcs. | 5        | 29720174 or equivalent    |
| 11                                        | Discharge hose 2", working pressure 53bar, test pressure 95bar, deformation pressure 160bar. Connecting pipe union 2 1/2"-12 UN and outlet connection 2" ISO 7, ~780mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | pcs. | 50       | 12237870550 or equivalent |
| <b>Charging machine (filling station)</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |          |                           |
| 1                                         | <b>Requirements:</b> <ul style="list-style-type: none"> <li>– Adapted for initial filling, refilling and extraction of gaseous fire extinguishing agents such as FK-5-1-12, HFC227.</li> <li>– Equipped with control panel with all necessary control pressure gauges, valves and taps.</li> <li>– Efficiency in extracting the extinguishing agent in both liquid and gaseous phases over 99%.</li> <li>– Maximum working pressure - 80 bar.</li> <li>– Build-in pneumatic pumps for compressed air.</li> <li>– Option for automatic control of the filling process via an electronic interface with an electronic scale.</li> <li>– Transfer rate of the fire-extinguishing agent in the liquid phase - up to 7 kg/min</li> </ul> | pcs. | 1        |                           |

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|     | <ul style="list-style-type: none"> <li>– Transfer rate of the fire-extinguishing agent in the gaseous phase - up to 0.9 kg/min</li> <li>– Working compressed air supply – from 7 to 9 bar.</li> <li>– Minimum working volume in liquid phase recuperation– 450 l./min.</li> <li>– Minimum working volume in gaseous phase recuperation– 900 l./min.</li> <li>– To be supplied with vacuum pump and the relevant control and measurement circuits for the vacuum line. The vacuum pump is required to remove atmospheric air and moisture from the cylinders before filling them with the fire-extinguishing agent.</li> </ul> |      |          |               |