

SHOWVEN[®]

PREMIUM FACTORY - OFFICIAL DISTRIBUTOR

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SHOWVEN Flame System

SHOWVEN Flame System

Pump/Fueling station

Fuel / Pressure supply



Flame Head

Ignition



Accessories

Control, power, signal, fuel dispenser



Pump/Fueling Station

Pump station

Pumping: Fuel and Pressure supply



uPumper P20

Pumping



uPumper P4

Pumping / Fueling switchable



uPumper Fueling

Fueling

Flame Head

Flame Head

No built in pump and fuel tank



PF10

IP67

Fixed outdoor
installations



X1800

210° swivel angles



uPumper Fueling

Fueling

Control Box

uControllbox C12

uControllbox C12 is voltage output signal control module, it is used in DIRECT ON-OFF control mode in SHOWVEN® flame system the function is to convert the DMX signal from the master console into a voltage signal for output, and control ignition and firing of flame head through the output voltage.

A unit of uControllbox C12 maximum support 12units of flame head. It is designed for installation in electrical cabinet.



uControlbox C12 Specifications

Dimension: 485 x 180 x 120 mm

Net Weight: 5 kg

Input: 220V /110V

Control Voltage Output: 220V /110V

Voltage Output Interface No.: 12

Max. Output Current: 10A

Control: DMX

Power Input: Neutrik NAC3PX-TOP

Voltage Output: Neutrik NAC3FPX-TOP



Main hose and branch hose



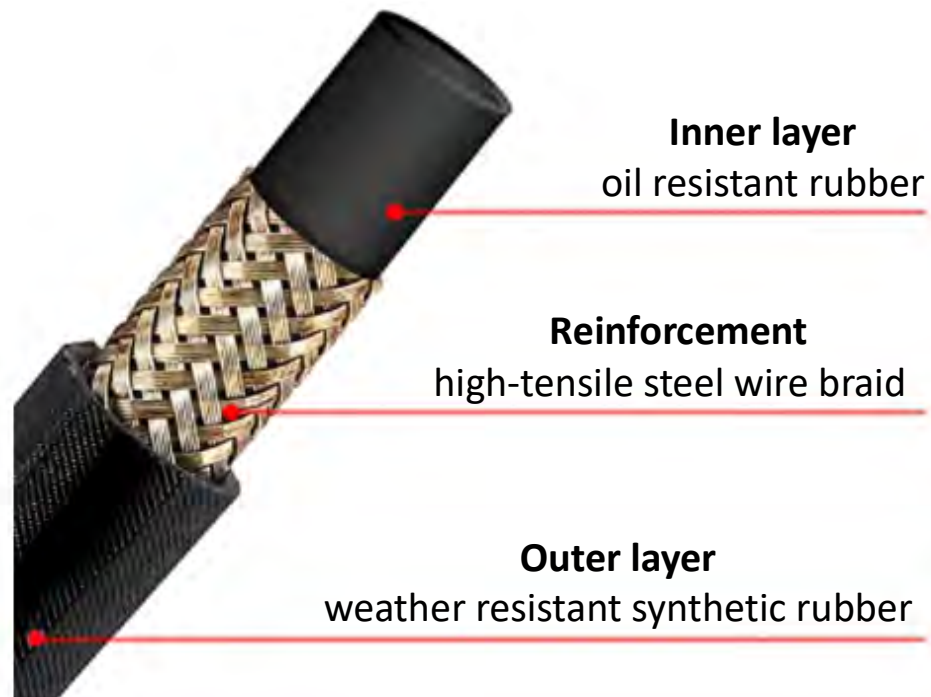
Main Hose
Hose 1.1/4 DN32



Branch Hose
Hose 3/8 DN10

Hose structure

High pressure steel wire braided rubber hose



Hose categories

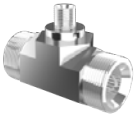

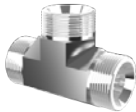


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Category		Branch Hose	Main Hose	Branch Hose	Main Hose
Name		Hose 3/8 DN10-xx M	Hose 1/2 DN16-xx M	Hose 3/4 DN19-xx M	Hose 1.1/4 DN32-xx M
Hose Size		1-10-16	1-16-12	1-19-10	1-32-6
Inside Diameter mm		10 ± 0.5	16 ± 0.5	19 ± 0.5	32 ± 0.7
Reinforcement Diameter mm		15.1 ± 0.6	21.4 ± 0.8	25.4 ± 0.8	39.2 ± 0.8
OutsideDiameter mm		17.3 ± 0.8	23.9 ± 0.8	27.6 ± 0.8	43.2 ± 1.2
Working pressure	Mpa	16	12	10	6
	Psi	2318	1739	1449	869
Proof pressure	Mpa	24	18	15	9
	Psi	3478	2608	2174	1304
Burst pressure	Mpa	48	36	30	18
	Psi	6955	5216	4347	2608
Min. Bend Radius mm		130	205	240	420
Weight kg/m		0.47	0.7	0.84	1.38
Spherical hydraulic joint (set)		1	1	1	1
ISO7241B hydraulic quick coupler (set)		1	1	0	0
3/8 Y- filter		1	0	0	0
Max. length/pcs m		100	100	50	40
Application		<i>Fuel dispenser – Flame head; P4 – flame head</i>	<i>Fueling station – Fuel dispenser</i>	<i>Connection between Fuel dispenser</i>	<i>P20 and Fuel dispenser</i>

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Fuel Dispenser

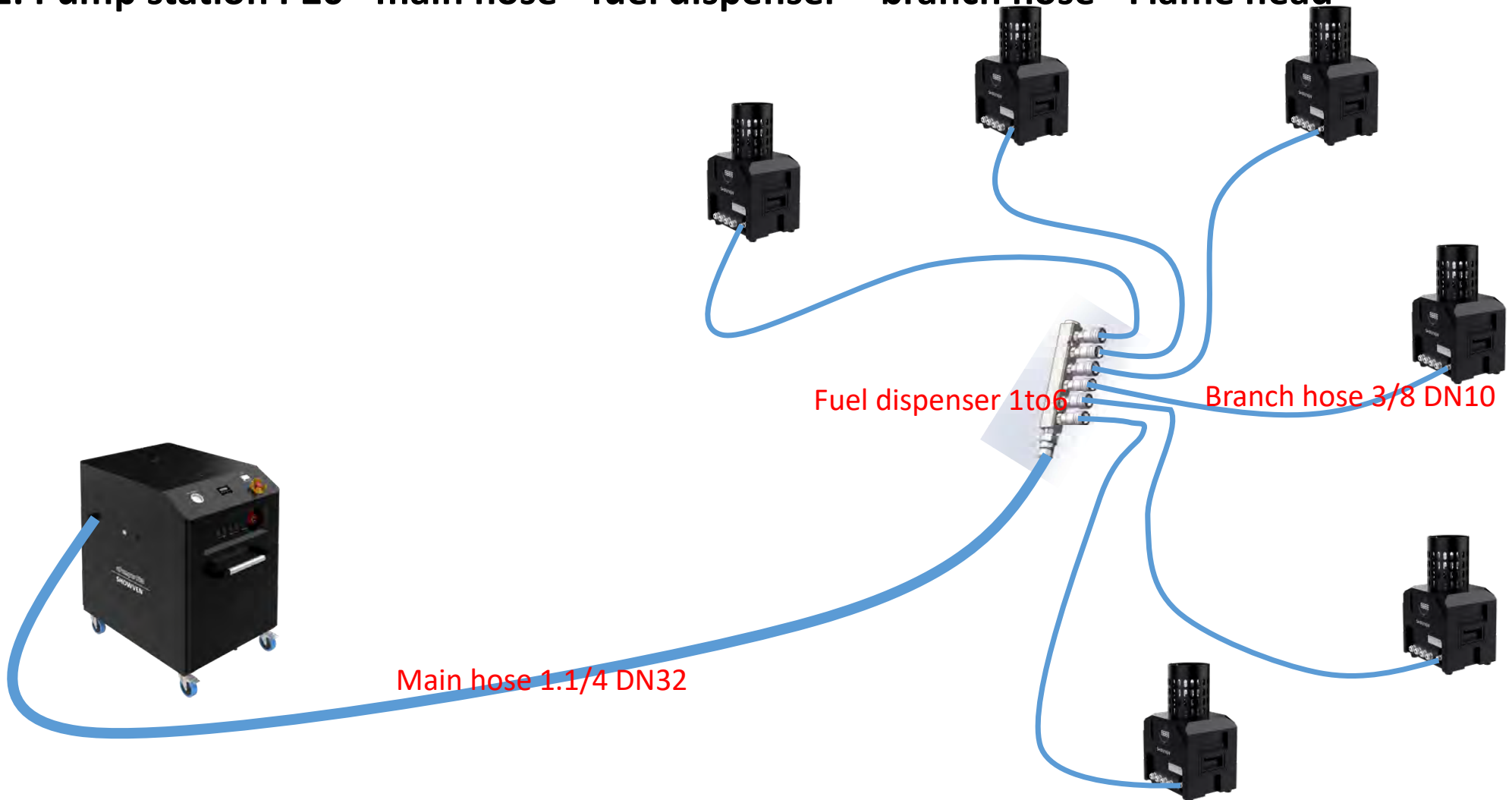


Name	T-shape dispenser	T-shape dispenser	T-shape dispenser	Fuel dispenser 1 TO 6	Fuel dispenser 1 TO 12
Description	T 1.1/4-3/8-1.1/4	T 1.1/4-3/4-1.1/4	T 1.1/4-1.1/4-1.1/4	Fuel dispenser 1(1.1/4) TO 6(1/4)	Fuel dispenser 1(1.1/4) TO 12(1/4)
Image					

Fuel distribution

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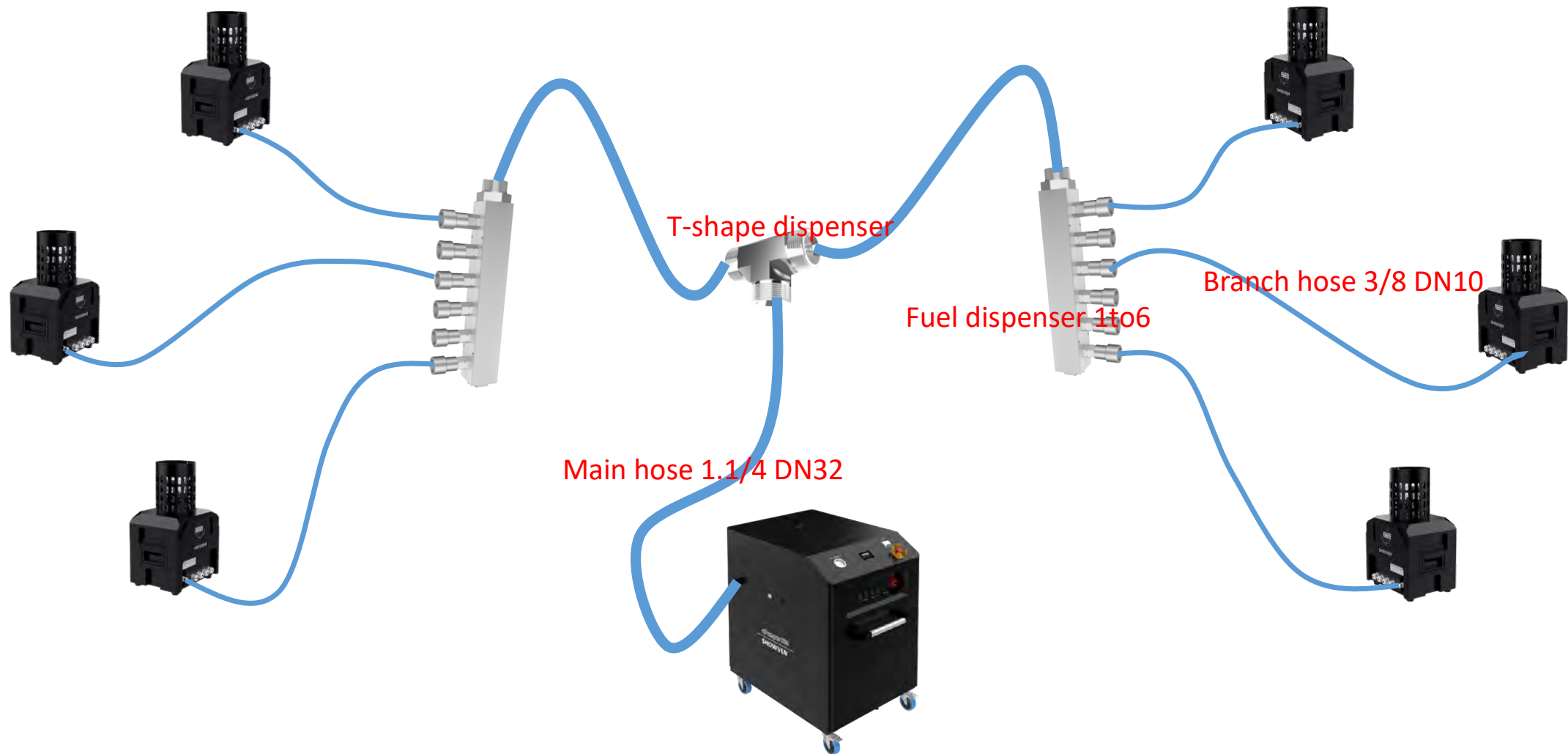
1. Pump station P20 –main hose - fuel dispenser – branch hose - Flame head



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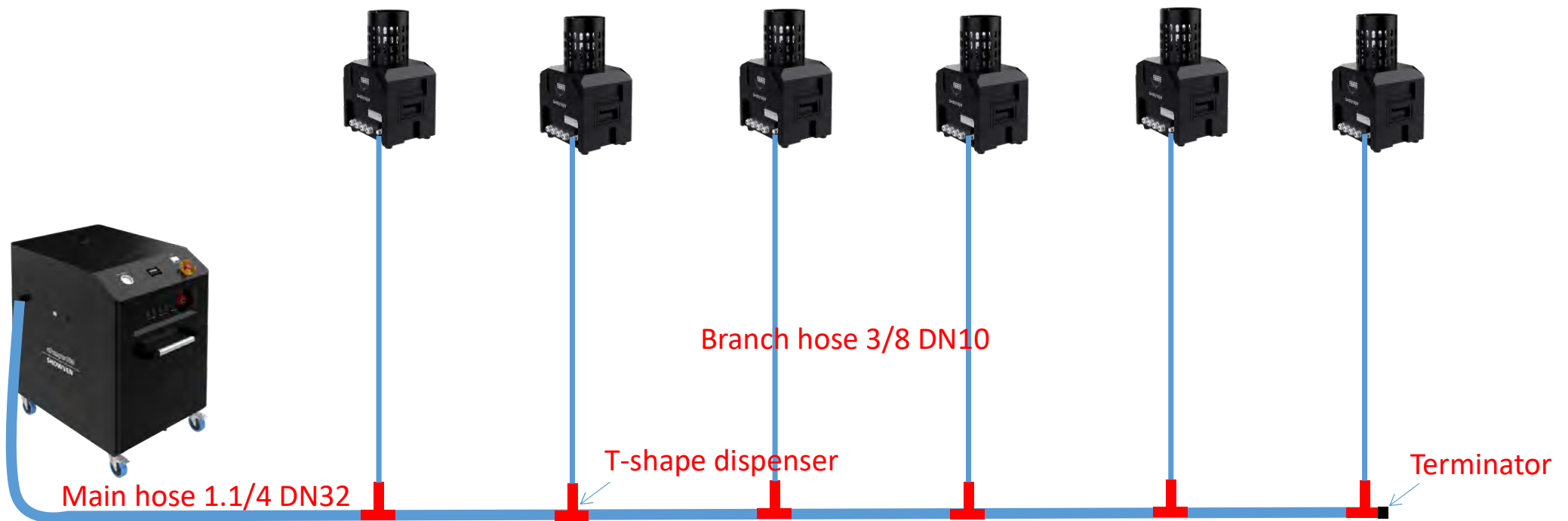
2. Pump station P20 –main hose – T-shape dispenser – main hose - fuel dispenser – branch hose - Flame head

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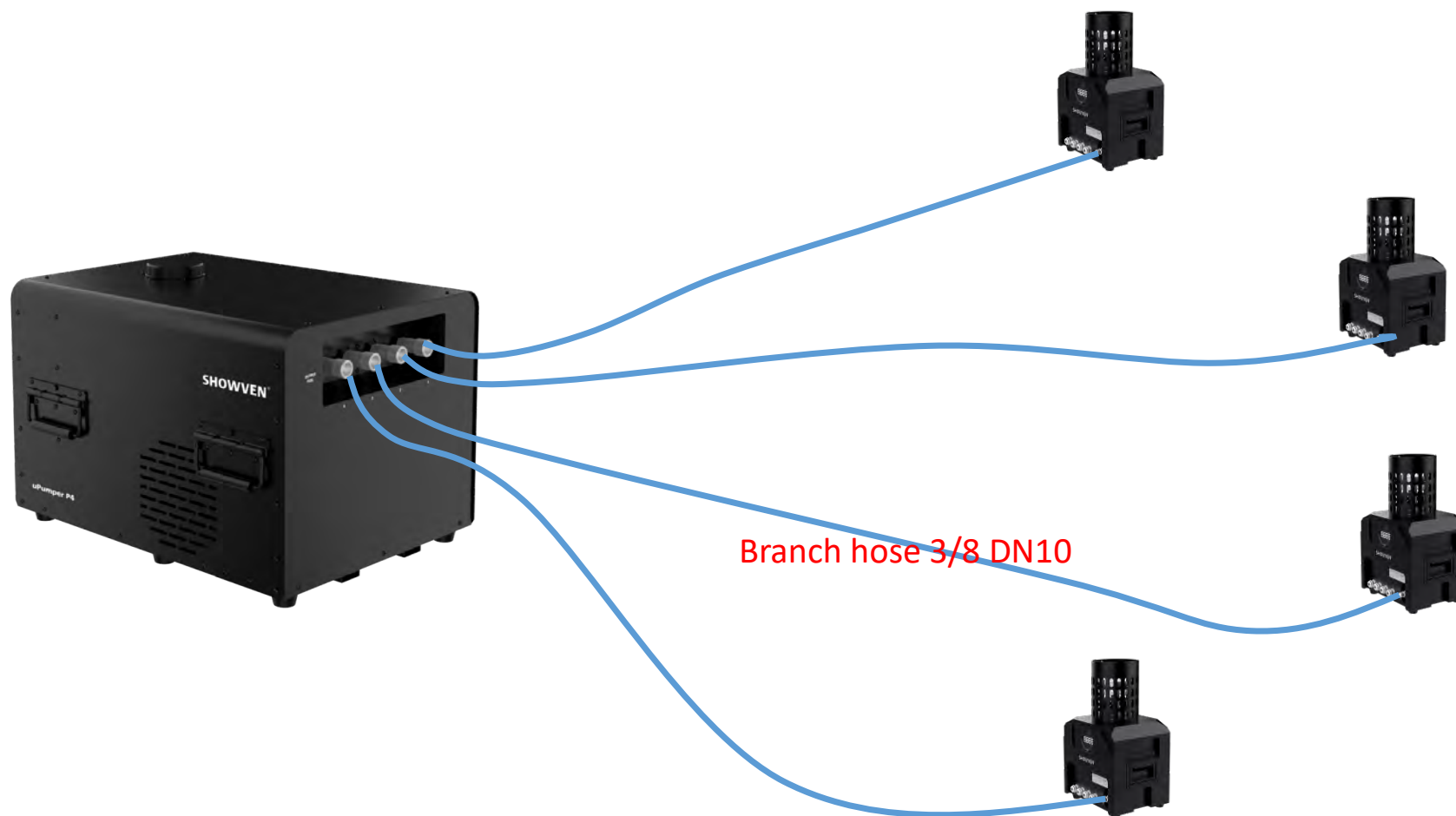


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3. Pump station P20 – main hose – T-junction – branch hose – Flame head



4. Pump station P4 – hose – Flame head



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Pumping System

Pumping system composition:

Pump station: Fuel and pressure supply

Flame head: Ignition and Firing

Control Box: convert DMX signals into electrical signals

Fuel dispenser: Fuel distribution from main hose to branch hoses

Main Hose: connect between pump station and fuel dispenser

Brank Hose: connect fuel dispenser and flame head

Power Cable: Power supply or power supply and electrical signal transmission

DMX Cable: DMX signal transmission

Pumping System

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According to the signal which control the ignition of flame heads, there are two different ways:

Direct ON-OFF:

DMX Console – Control Box (convert DMX signals into electrical signals) – Flame Head

DMX Control:

DMX Console – Flame Head

Pump Station

uPumper P20 Features

- / Reinforced 304 stainless steel housing
- / Remote fuel and pressure supply
- / Built in pump, no Nitrogen tank needed
- / 250L extra large fuel tank
- / Support 20 flame heads
- / Electronic digital fuel level display
- / Configured with pressure monitoring
- / Overflow valve ensure system pressure under control



uPumper P20 Specifications

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Dimension: 1100 x 700 x 1095 mm

Net Weight: 285 kg

Housing material: 304 stainless steel

Input: AC380V

Work power: 6KW

Tank capacity: 250L

Pump output: 110L/min

Max. support PF10 quantities: 20 heads

Work TEMP.: -20 – 50°C

Support Fuel: ISOPAR

Support Flame Heads: PF10, X1800



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Pump Station

uPumper P4 Features

- / Reinforced 304 stainless steel housing
- / Remote fuel and pressure supply
- / Built in pump, no Nitrogen tank needed
- / 32L fuel tank
- / Support 4 flame heads
- / Electronic digital fuel level display
- / Configured with pressure monitoring
- / Fueling and pressurize function switchable



uPumper P4 Specifications

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Dimension: 580x420 x460 mm

Net Weight: 48 kg

Housing material: 304 stainless steel

Input: AC200-240V, AC100-120V, 50-60Hz

Work power: 1800W

Tank capacity: 32L

Pump output: 15L/min

Work TEMP.: -20 – 50°C

Support Fuel: ISOPAR

Voltage Output Interface: Neutrik NAC3FPX-TOP

Voltage Output Interface No.: 4

Fuel Output Quick Coupler: ISO 7241B G1/4 female

Fuel Output Interface Quick Coupler No.: 4

Working Mode: **Fueling** or Pressurize switchable

Max. Supported Flame Head: 4

Support Flame Heads: PF10, X1800, uFlamer Volcano (Fueling mode)



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Flame Head

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uFlamer PF10 Features

- / IP67 rated waterproof
- / Designed for fixed outdoor installations
- / Dual solenoid valve for extra safety
- / Dual igniter ensure successful ignition
- / Flames up to 10m
- / Aluminum CNC machining structure
- / Oxidation treated housing, durable for outdoor installation
- / Highlight digital tube display convenient for remote debugging
- / Infrared remote control realizes non-contact setting
- / Built-in accumulator
- / DMX / direct ON-OFF control customizable
- / 220V, 110V, 24V etc. voltage customizable



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PF10 Specifications

Dimension: 250 x 200 x 410 mm

Net Weight: 15 kg

Housing material: Aluminum

Input: 220V, 110V, 24V customizable

Work power: 120W

Flame height: Up to 10m

Min. firing duration: 0.1s

Fuel: ISOPAR

Fuel consumption: 60ml/s (Nozzle M), 30ml/s (Nozzle L)

Ignition: Dual, high voltage electron ignition

Control: DMX, Direct ON-OFF customizable

Waterproof level: IP67

Quick Couplers: ISO7241B G1/4 male

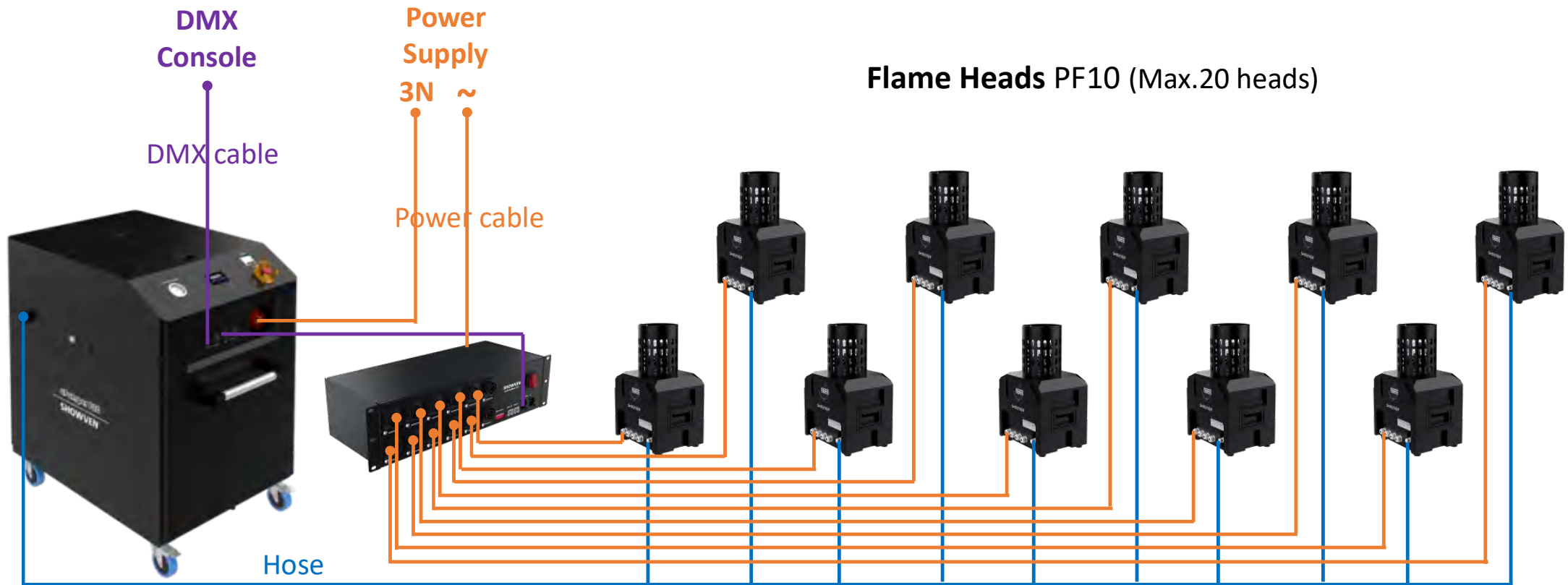
Built in accumulator: Yes

Work pressure range: 8-10bar

Installation angles: Any angle even upside down

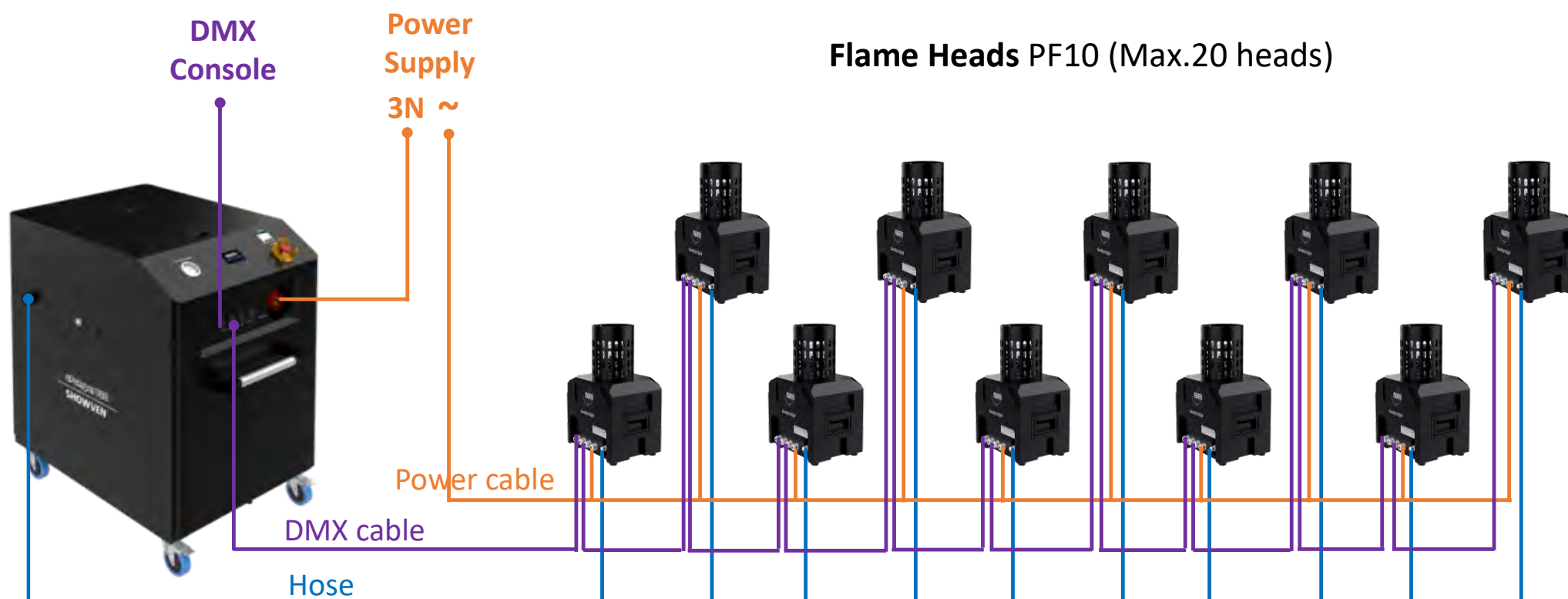


DIRECT ON-OFF



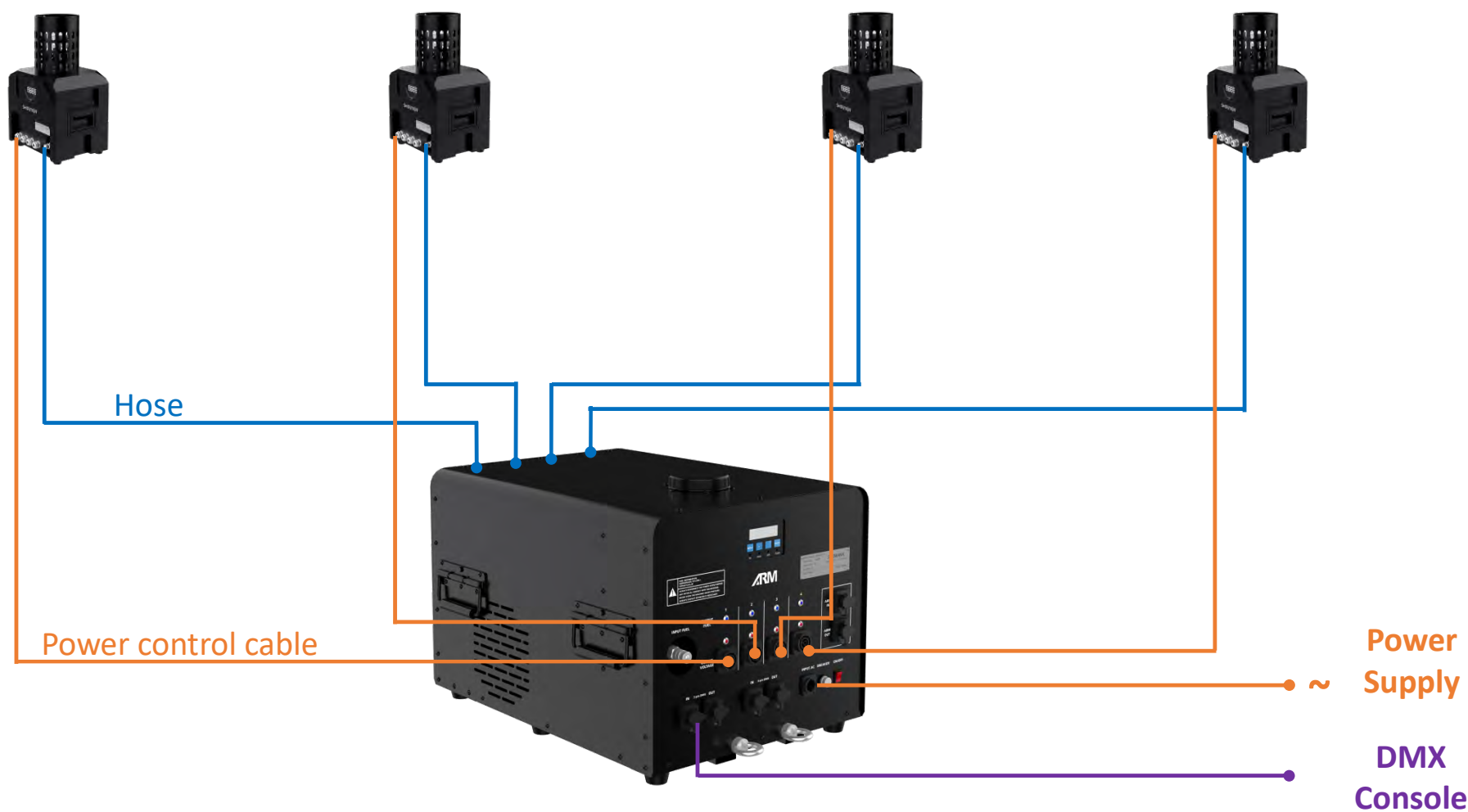
DMX Control

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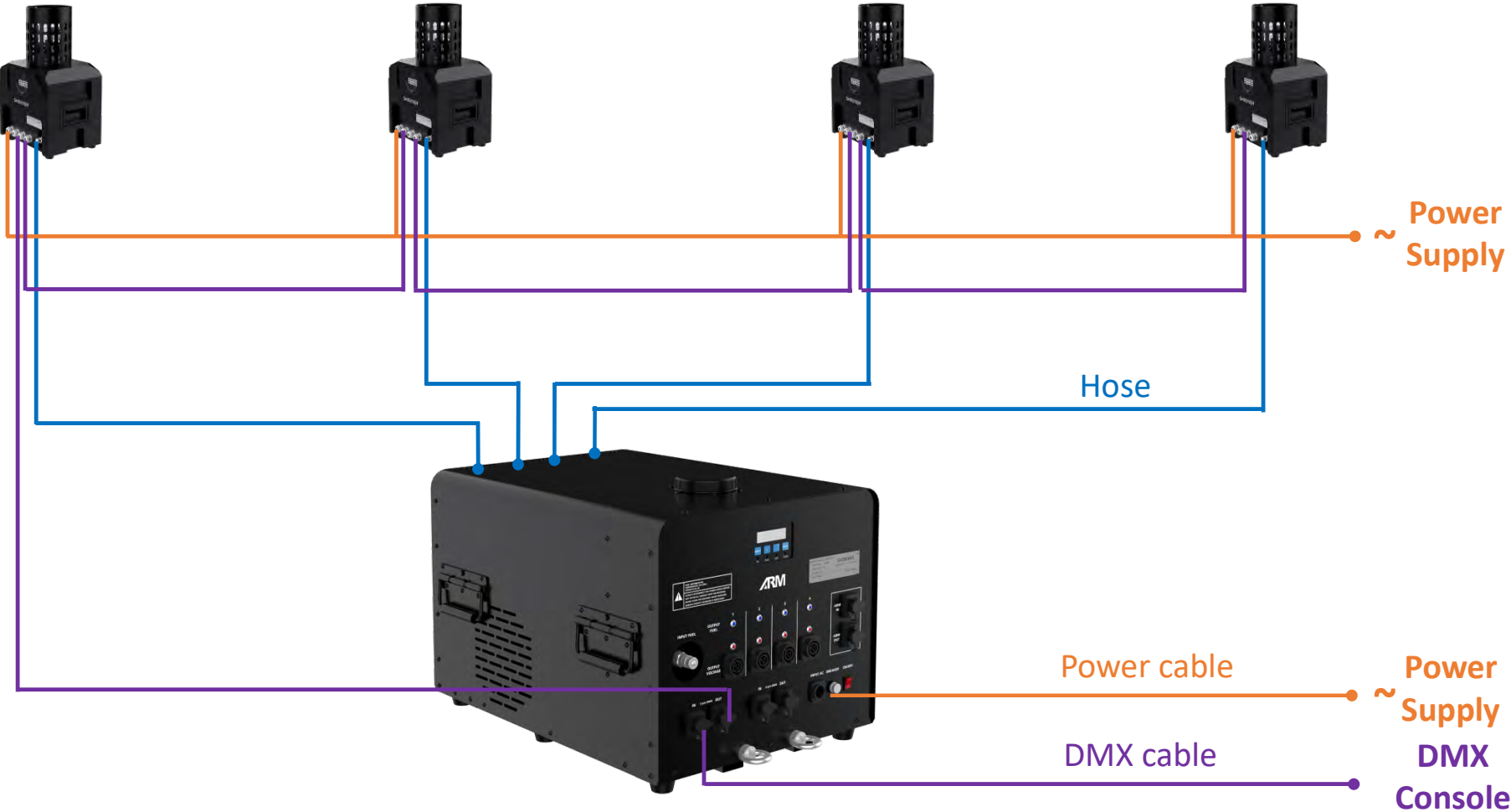
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DIRECT ON-OFF



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DMX Control



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Flame Head

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uFlamer X1800 Features

- / 210° swivel angles
- / IPX4 rated waterproof, can be used in rain
- / Dual solenoid valve for extra safety
- / Dual ignitor ensure successful ignition
- / 88 preset firing sequences, easy to operate
- / Support 9-60V pyro signal
- / Flames up to 10m
- / Stainless steel housing
- / Built-in accumulator
- / DMX control, both 3-pin and 5-pin XLR



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uFlamer X1800 Specifications

Dimension: 370 x 380 x 380 mm

Net Weight 19 kg

Housing material: Stainless steel

Input: 220V /110V

Work power: 260W

Flame height: Up to 10m

Min. firing duration: 0.1s

Fuel: ISOPAR

Firing angle: 210° ($\pm 105^\circ$)

Fuel consumption: 60ml/s (Nozzle M), 30ml/s (Nozzle L)

Ignition: Dual, high voltage electron ignition

Control: DMX, both 3-pin and 5-pin XLR; 9-60V Pyro Signal

Waterproof level: IPX4 for horizontal installation

Quick Couplers: ISO7241B G1/4 male

Built in accumulator: YES

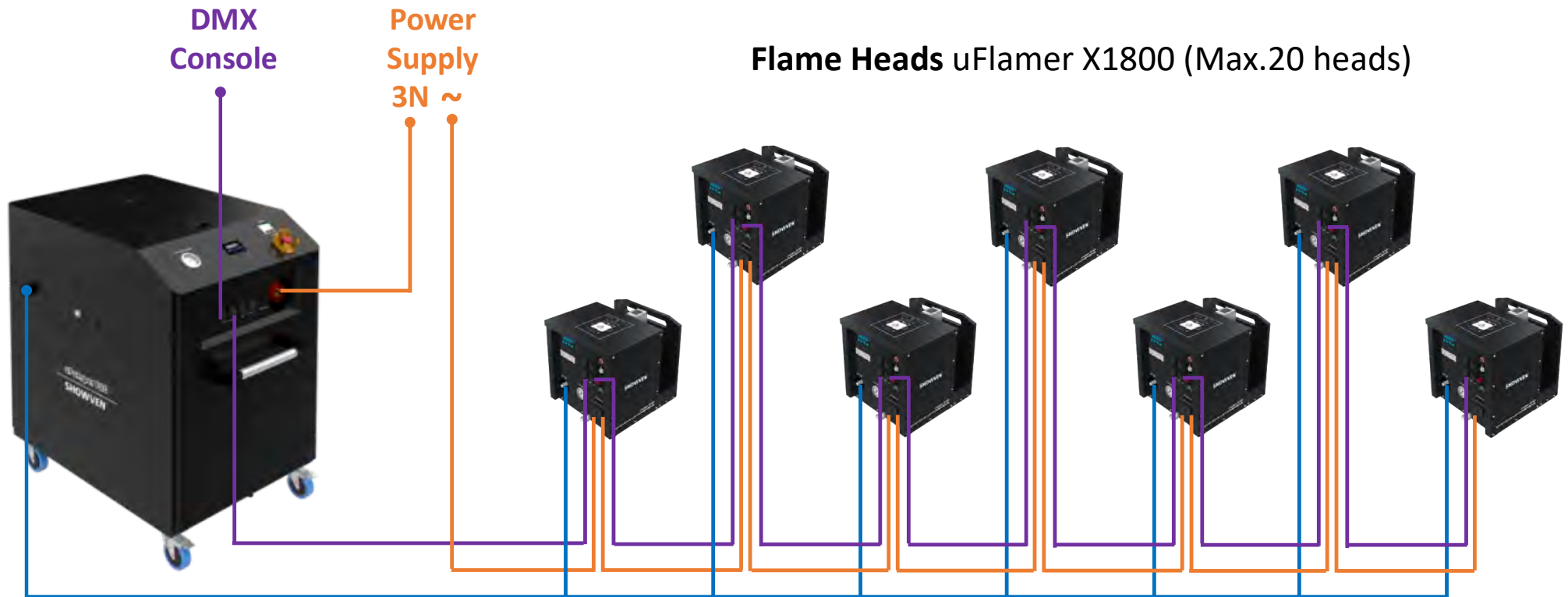
Work pressure range: 8-10bar

Installation angles: Any angle (bottom panel is not waterproof)

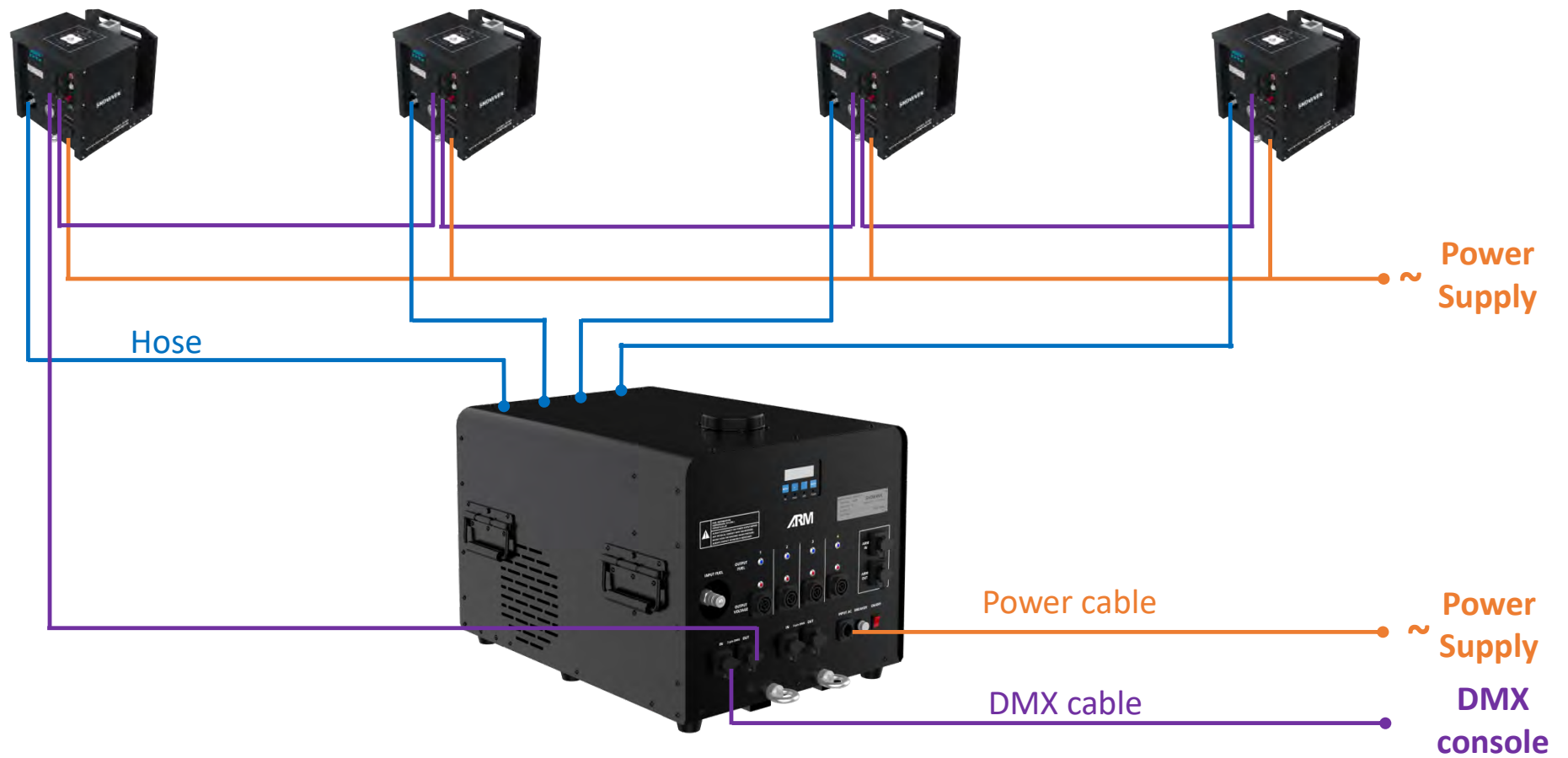


uFlamer X1800 control with P20

uFlamer X1800 can only DMX control



DMX Control with P4



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Fueling System

Fueling system composition:

Fueling station: Fuel supply

Flamer: Pressure (built in pump), Ignition and Firing

Fuel dispenser: Fuel distribution from main hose to branch hoses

Main Hose: connect between fueling station and fuel dispenser

Brank Hose: connect fuel dispenser and flamer

Power Cable: Power supply or power supply and electrical signal transmission

DMX Cable: DMX signal transmission

Fueling Station

uPumper Fueling

- / Remote fuel supply for standalone flamers
- / Built in pump, no Nitrogen tank needed
- / Reinforced 304 stainless steel housing
- / 250L extra large fuel tank
- / Multi built in fuel filter
- / Electronic digital fuel level display
- / Configured with pressure monitoring, precise refueling
- / E-stop for emergency situation



uPumper Fueling Specifications

Dimension: 1100 x 700 x 1095 mm

Net Weight: 117 kg

Housing material: 304 stainless steel

Input: AC100-120V, AC200-240V, 50-60Hz

Work power: 1800W

Tank capacity: 250L

Pressure range: 0.5-1.1MPa adjustable

Pump output: 15L/min

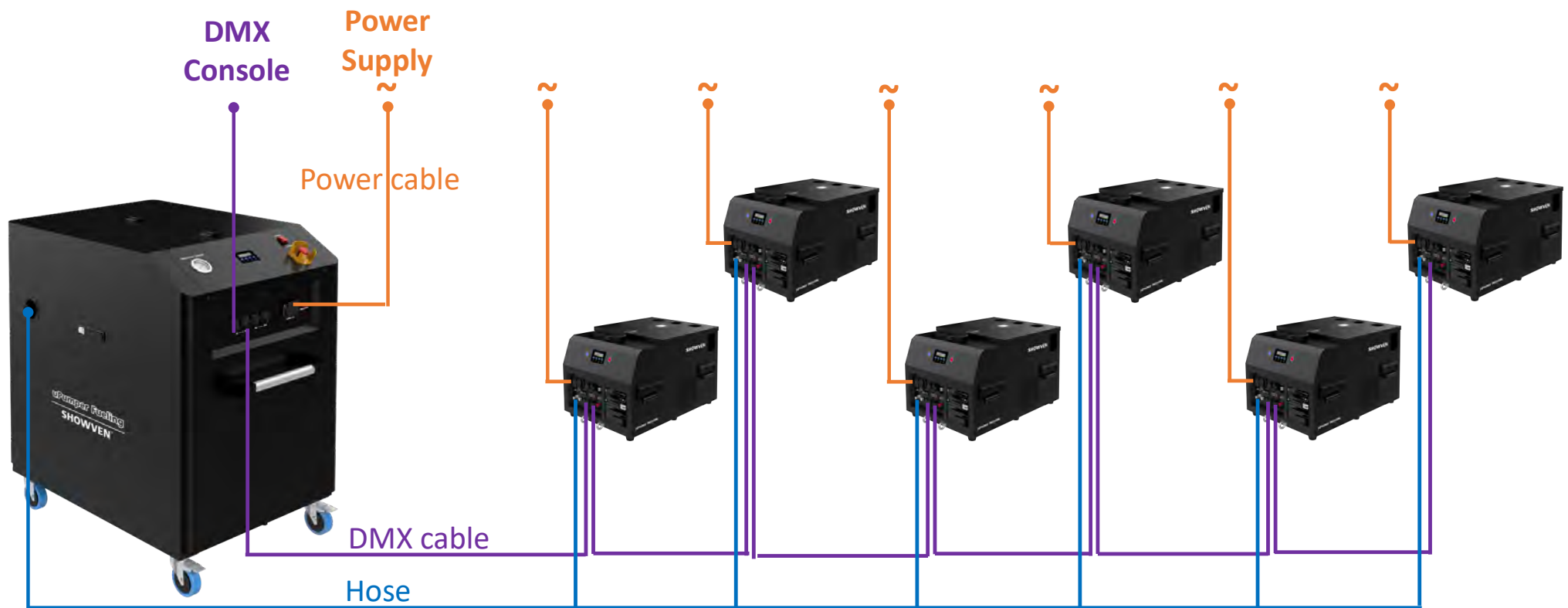
Work TEMP.: -20 – 50°C

Support Fuel: ISOPAR

Support Flamer: uFlamer Volcano

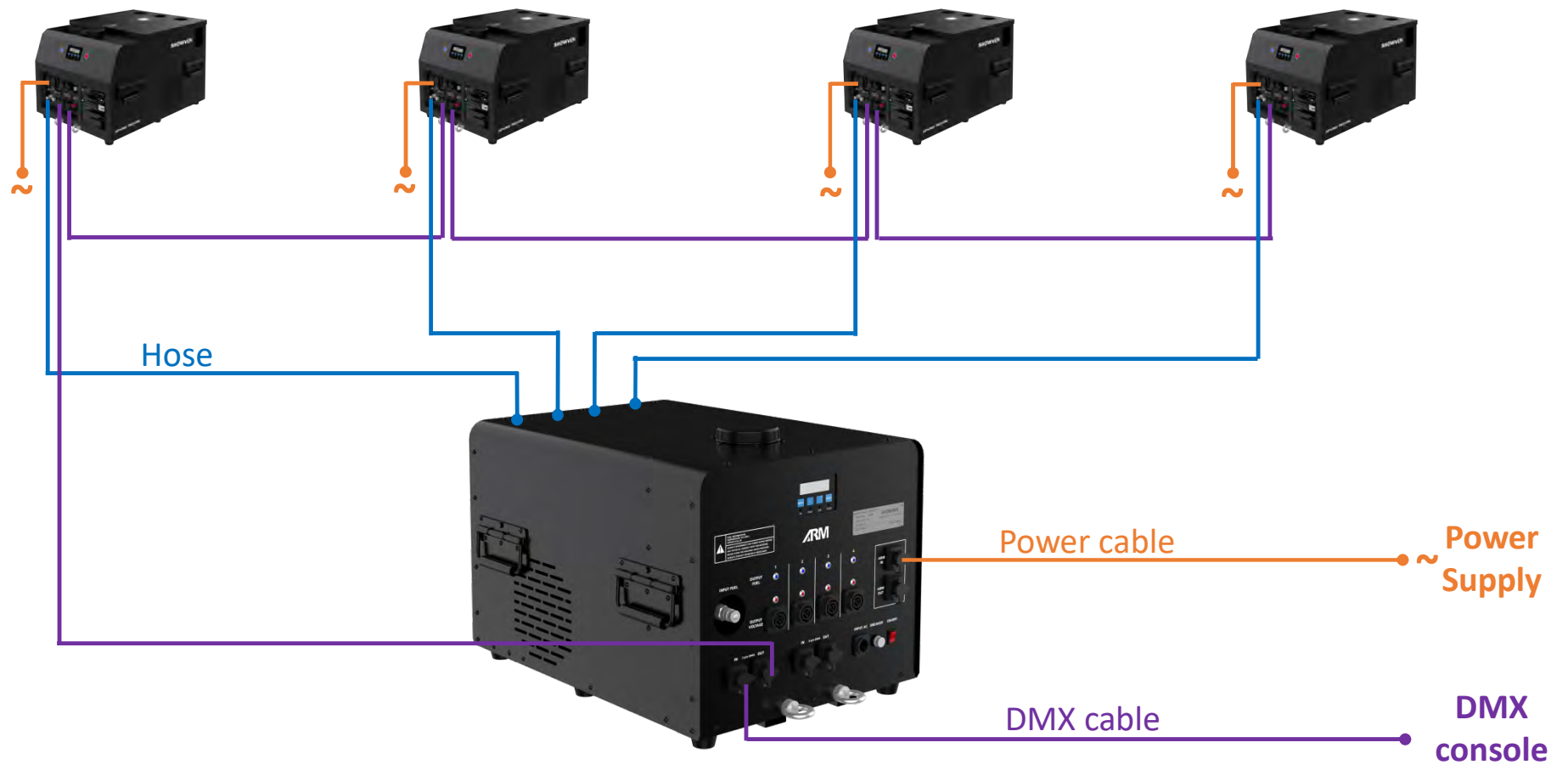


uFlamer Volcano refueling with Fueling Station



Max. support uFlamer Volcano depends on the fuel consumption, Fueling Station pump output 15L/min

uFlamer Volcano Fueling with uPumper P4



SHOWVEN®

Application case



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