

## Aircart-19 ATO Configurations

① Product Category		② Aircart Type			③ Cylinder Type			④ Air tube Type				
ATO1		ATO2	PN	Description	ATO3	PN	Description	ATO4	PN	Description		
AC	Moveable aircart station	19	10208709	FRAME ASSY, AIRCART 19, W/ COIL PIPE	0000	None	None	000	None	None		
					B60X	10162332	6.8L CYLINDER UNIT, BTIC EN W/O GUAGE & BAG	05X	3599116-SP	Air hose, L5m, SP		
					B61X	10168087	CYLINDER UNIT, 6.8L, BTIC EN W/ GAUGE	10X	3599117-SP	Air hose, L10m, SP		
								15X	3599118-SP	Air hose, L15m, SP		
								20X	3599119-SP	Air hose, L20m, SP		
										30X	3599115-SP	Air hose, L30m, SP
				"19" means the new air station launched, include 25m tube and coil rack. Total 4 cylinders that can be installed.	The first number is the cylinder type, "B" means the 6.8L BTIC EN cylinder; The second number means the bottle valve type, "1" is the bottle valve with pressure gauge, "0" is the bottle valve without pressure gauge; The third is the number of cylinders.			The first two represent hose lengths, 05 is 5 meters long, 10 is for 10 meters long, 15 is 15 meters long, 20 is for 20 meters long, and 30 is for 30 meters long. The third is the number of hose.				

⑤ Y-JOINT Type			⑥ Air tube Type			⑦ Airline/Escape Respirator Type		
ATO5	PN	Description	ATO6	PN	Description	ATO7	PN	Description
00	None	None	000	None	None	00	None	None
YX	10191891	Y-Joint, W/2 Couplings & 1 Plug, SP	05X	3599116-SP	Air hose, L5m, SP	UX	10175683	Airline, PremAire, harness/mask/valve asm
			10X	3599117-SP	Air hose, L10m, SP	CX	10163653	Airline, PremAire, w/cylinder
			15X	3599118-SP	Air hose, L15m, SP	VX	10170086	PremAire combination, w/cylinder & ASV
			20X	3599119-SP	Air hose, L20m, SP			
			30X	3599115-SP	Air hose, L30m, SP			
The first digit represents the joint form, "Y" means y-type three-way joint of two female and one male. The second is the number of Joint.			The first two represent hose lengths, 05 is 5 meters long, 10 is for 10 meters long, 15 is 15 meters long, 20 is 20 meters long, and 30 is 30 meters long. The third is the number of hose.			The first means the respirator type, "U" is pressure supply long tube respirator, "C" is pressure supply long tube respirator with escape cylinder, "V" is pressure supply long tube respirator with escape cylinder and automatic transfer valve. Number two is the number of respirators.		



Aircart-19 High Pressure Supplied Airline system

**MSA Singapore**  
35 Marsiling Industrial Estate Road 3  
Singapore, 739257  
+65 6350 4500

**MSA Malaysia**  
No. 22, Jalan PPU 2A  
Taman Perindustrian Puchong Utama  
Puchong, Selangor, 47100

**MSA Philippines**  
Level 29 Joy Nostalq Center, ADB Avenue  
Ortigas Center  
Pasig City, 1600  
+63 917 873 9138

**MSA Indonesia**  
Komplek Rukan Puri Mutiara  
Jl. Griya Utama Blok BC 1 & 2, Sunter Agung  
Jakarta Utara, DKI Jaya 14350  
Indonesia

**MSA Thailand**  
Room 2036 SPACES Phahon 19 Building  
No.1687/1 Phahonyothin Road Lad Yao Sub-district, Chatuchak District  
Bangkok, 10900



**Pressure gauge**

- High pressure gauge, indicating pressure in the cylinder
- Medium pressure gauge, indicating pressure in the medium pressure hose
- MPa/bar double scale display



**Pressure reducer**

- Continuous long working hours
- Multiple supply
- Stable medium pressure output



**Pressure release valve**

- Cylinder connected to the handwheel, ergonomics and ease of operation
- High pressure release valve, to release the remaining pressure within the hose and cylinder, to ease the cylinder changing operation



**Hose Reel**

- Hose automatically retracts into the wheel
- Self locking mechanism: maintains extended length of hose during operations
- 25 meter hose length



**Brakes**

- To hold the working position of the cart, and prevent accidental movement of the air cart



**Hose**

- Choice of length from 5m to 30m
- Rectus quick connect



**Y - Piece**

- Corrosion resistance material
- Suitable angle for one inlet, and two outlet configuration.

## Specialty

- Ease of changing compressed air cylinders
- Single cylinder usage possible
- Cylinders are interchangeable for continuous supplied air
- Hose in the hose reel can be easily deployed
- Maximum number of users: 4 users
- Suggested number of users: 1-2 users

## Technical Information

Operating pressure	30MPa
Alarm	5.5±0.5MPa
Reducer operating pressure	0.6-0.75MPa
Reducer operating volume	≥ 500 litre/minutes
Alarm	≥ 90db
Hose reel length	25m
Dimension	99 x 80 x 110 cm
Maximum usage length	80m
Standard compliance	GB6220-2009

## Option 1

PN	Description	S/N	Item	Qty
10222628	AirCart,4x6.8L Gauge,2x5m			
		1	4 Cylinder AirCart-19 Frame Assembly, w/hose reel drum and 25 meter hose	1
		2	5 meter hose	2
		3	Y-Joint - one inlet and two outlets	1
		4	6.8L BTIC Composite Cylinder w/gauge	4

## Option 2

PN	Description	S/N	Item	Qty
10222629	AirCart,4x6.8L,2x5m			
		1	4 Cylinder AirCart-19 Frame Assembly, w/hose reel drum and 25 meter hose	1
		2	5 meter hose	2
		3	Y-Joint - one inlet and two outlets	1
		4	6.8L BTIC Composite Cylinder w/o gauge	4

## Option 3

PN	Description	S/N	Item	Qty
10222630	AirCart,4x6.8L Gauge,2x10m			
		1	4 Cylinder AirCart-19 Frame Assembly, w/hose reel drum and 25 meter hose	1
		2	10 meter hose	2
		3	Y-Joint - one inlet and two outlets	1
		4	6.8L BTIC Composite Cylinder w/gauge	4

## Option 4

PN	Description	S/N	Item	Qty
10222661	AirCart,4x6.8L,2x10m			
		1	4 Cylinder AirCart-19 Frame Assembly, w/hose reel drum and 25 meter hose	1
		2	10 meter hose	2
		3	Y-Joint - one inlet and two outlets	1
		4	6.8L BTIC Composite Cylinder w/o gauge	4





The **PremAire Combination**, a Combination Supplied Airline Respirator with compressed air cylinder, is designed to be versatile, comfortable, and affordable. A streamlined design offers a first stage pressure reducer and cylinder valve within one assembly, creating a very small size and profile that is less likely to snag when working in confined space or tight places.

The PremAire Combination is equipped with the 3S-PS-MaXX full face mask in combination with the AutoMaXX-AS lung-governed demand valve.

## Features & Benefits

### Holster Carrier

- Allows straightforward attachment/detachment of air cylinder

### Hip Belt & Shoulder Harness Assembly

- Intuitive fast donning
- Improved comfort and ergonomics for long duration jobs
- Easy left to right hip positioning of air cylinder

### One-Piece Cylinder Valve and First Stage Pressure Reducer

- Reduces size and profile

### Pressure Gauge recessed into Valve Housing

- Protects gauge
- Reduces size and profile

### Easy Access Filling Port

- Convenient and fast refilling of compressed air cylinder
- No restrictions in compressor filling pressure (200 or 300 bar)
- Ease of attaching QuickFill adaptor

### 2.0L Composite or Steel Cylinder Options

- Rated duration of 15 minutes

## Ordering Information

PremAire Combination Airline/Escape	
10222823	PremAire Combination Airline/Escape, with 3S full face mask, 2L composite cylinder (empty)
10222824	PremAire Combination Airline/Escape, with 3S full face mask, 2L steel cylinder (empty)



PremAire Combination with 3S-PS-MaXX and AutoMaXX-AS



### Pressure Reducer & Cylinder

A streamlined design combining the cylinder valve, cylinder gauge and first stage pressure reducer in one piece. A hard cover for this assembly ensures additional protection against accidental hits/drops while serving as a convenient handle.



### Hip Belt & Shoulder Harness

The belt and shoulder harness assembly provides increased comfort while easily allowing the repositioning of the air cylinder from the right hip to left or any other comfortable position, without the need of doffing the whole device (relieving stress points).



### Holster Carrier

The holster carrier secures the air cylinder while allowing easy detaching/attaching of the cylinder when needed. For users working in confined space this feature allows high maneuverability in tight places and simplifies entry and exit from confined space access.



### Automatic Switch Valve

The Automatic Switch Valve (ASV) is mandatory for supplied air respirators with airline connection and for devices which need to be approved to EN 14593-1. In case the external air source fails or the pressure drops to 4.3–5.3 bar, the valve switches automatically to supply air from the PremAire Combination compressed air cylinder. If the pressure of the main air supply again rises above 5.3–6.5 bar, the valve switches back to the external air source.