

# THINK FUTURE

## AC744PRO



**CO<sub>2</sub> Service Unit**

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AN SPX BRAND

# AC744PRO



## AC744PRO

SPX' service station for next-generation R744 (CO<sub>2</sub>) Mobile Air Conditioning developed by refining the most advanced traditional units for cars, trucks and buses to cater for the special requirements of CO<sub>2</sub> systems. The result is a fully automated service station avoiding any operator presence while performing a rapid, safe and reliable oil and refrigerant discharge. The unit, featuring a guided software and an integrated database, complies with EU and SAE safety standards.

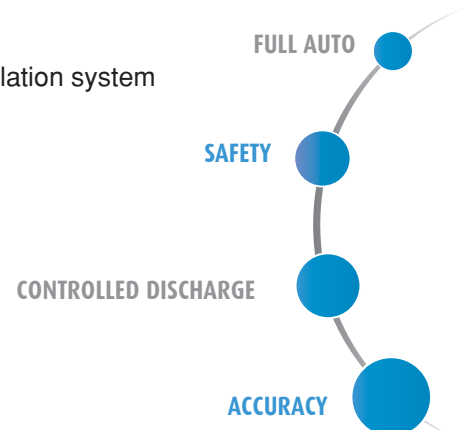
Safety pressure reliefs at key points of the circuit, as well as an automatic vehicle pressure detection alarm ensure a safe, accurate recharge of the air conditioning system. Moreover, the unit also prevents freezing and explosive decompression by limiting the CO<sub>2</sub> recovery flow rate.

## FOCUS ON SAFETY

- Full automatic control to avoid operator presence.
- Monitoring of pressures and temperatures on LCD and 3 gauges.
- Heated tank controlled, with thermal safety device to regulate the temperature and pressure switch to disable heating element in case of excessive pressure.
- Safety pressure relief at the key points of the unit internal circuit.
- Automatic vehicle pressure detection and safety pressure relief.
- No internal access for maintenance.
- Sleeve quick couplers that don't permit the detaching if there is pressure on the connections CO<sub>2</sub> sensor and alarm to indicate indoor saturation.

## BASIC FUNCTION

- Fully automatic functions (Reference AC690PRO functions)
- Secured connection to vehicle service ports
- Controlled discharge of the system (oil & refrigerant)
- Evacuation and moisture removal (Vacuum)
- Accurate recharge of the system (oil & refrigerant)
- Automatic internal tank refilling
- Safety features
- Connection to the garage ventilation system



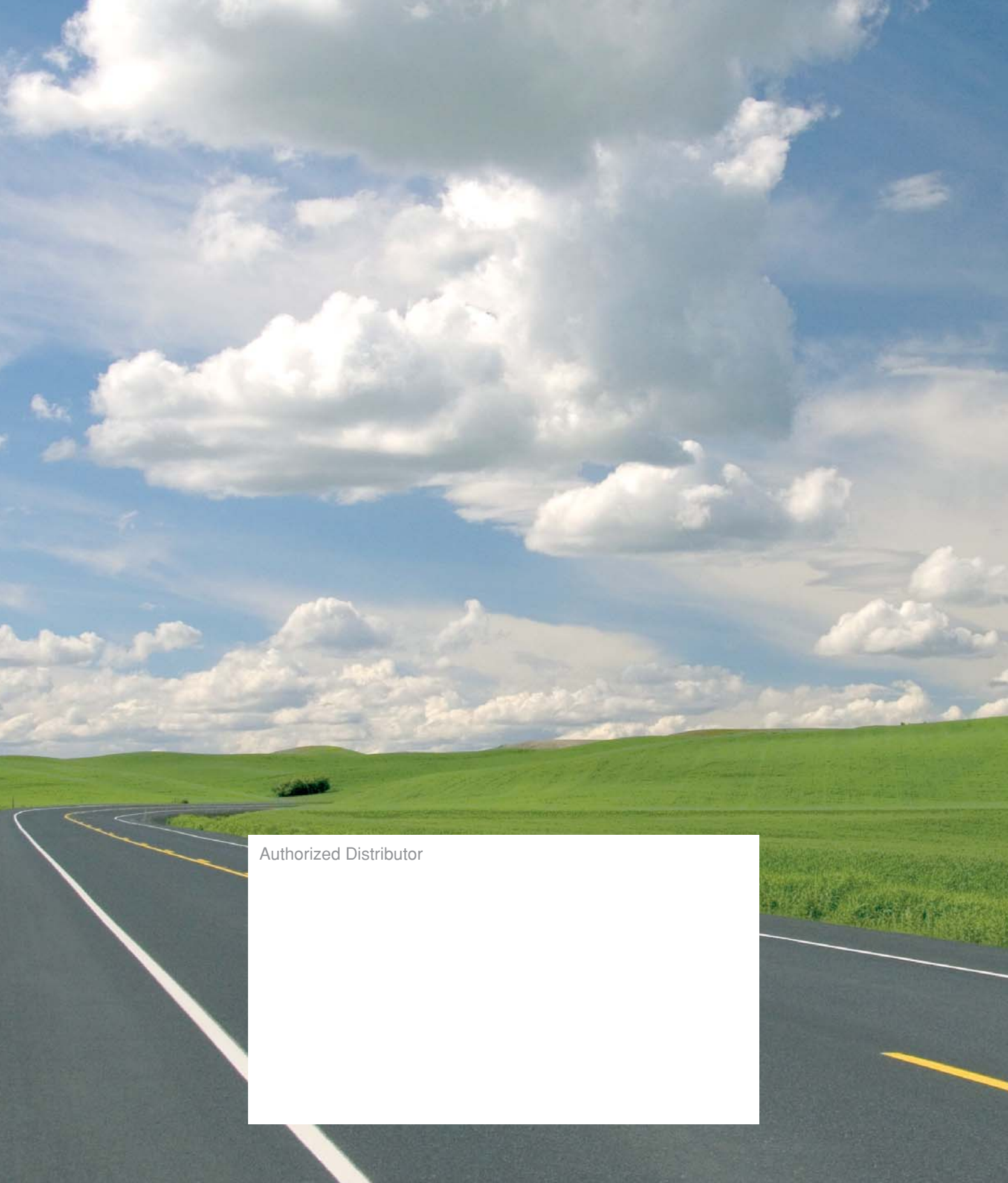
The SPX/Robinair service station AC744PRO constantly monitors on a LCD and gauges display pressures on the high- and low pressure side of the system. In case of excessive pressure, a thermal safety device and a pressure switch turn off the unit. An electronic scale with an accuracy of at least +/- 5 g (1.25 % at 400 g) controls the refrigerant charging.

## TECHNICAL SPECIFICATION: COMPARISON BETWEEN 690 AND 744

Features	AC690PRO R134a	AC744PRO - R744
Max operating-pressure	Max 1,5 Mpa (SAE J2210 –CE PED)	10 Mpa
Safety switch / pressure relief	1,5 M pa	10 Mpa and / or Pressure gauge
Pressure gauges	Yes, EN837	Electronic transducers, gauges
Solenoid block	Yes, specific supplier	Yes, production version only
Service coupling	R134a SAE J639	SAE J2769
Service hoses	R134a , 2,50 meters, SAE J2196	R744, SAE J2770
Automatic Hoses lengths compensation	Yes, 2,5 -5,0 -7,5 –10,0 meters	Possible, TBD
Refrigerant recovery & recycling	Yes, single & multi-pass recycling	No, outdoor venting
Compressor for recovery	1/3 Hp-500 gr/min	No, regulated discharge
Oil separation & drain	Yes	Possible, TBD
Vacuumpump	Yes, dual stage180 lt/ min, 50 microns	Yes, dual stage180 lt/ min, 50 microns
Oil injection	Yes	Yes
Electronic charging scale	Yes, 5 grams resolution	Yes, 5 grams resolution
Tank capacity	20 kg	5 kg + externaltank







Authorized Distributor

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