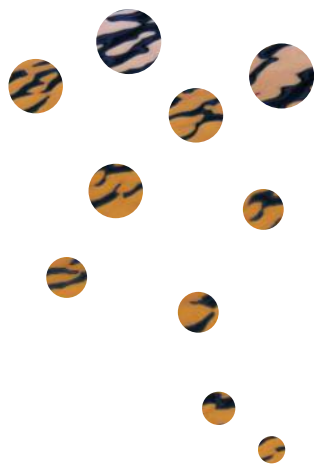
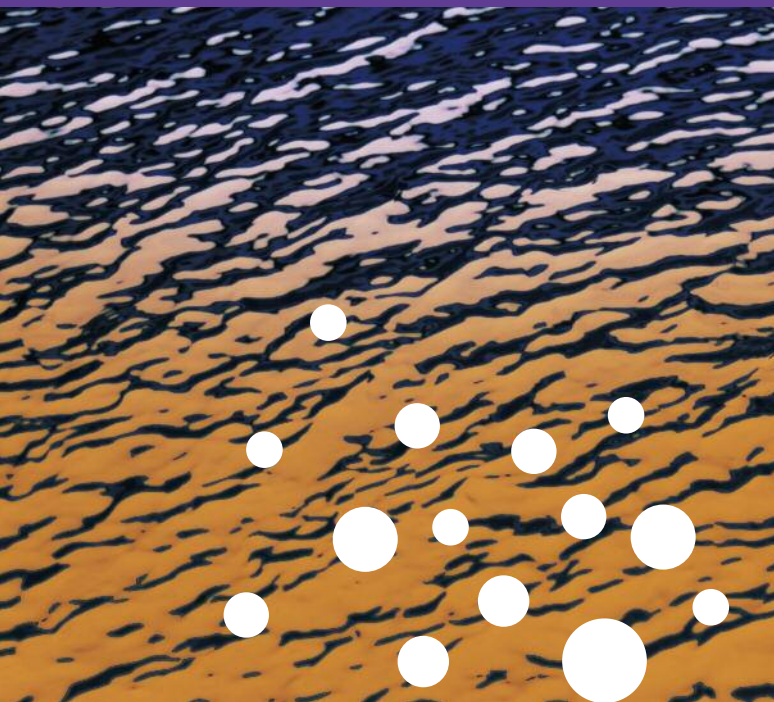


# NIMBUS C295



**MODULAR  
AERIAL  
DISPERSANT  
SPRAY SYSTEM**

# NIMBUS C295



## Product Description

NIMBUS is a UK Patented (GB 2348383) concept for a modular aerial dispersant spray system for operation from aircraft equipped with a rear cargo ramp and which requires minimal (or no) modification to the aircraft. Current NIMBUS systems have been designed and certificated for the Lockheed L382G “Hercules” aircraft and this brochure describes the NIMBUS system for the C295 aircraft.

The NIMBUS C295 system comprises 3 light weight Tank Modules with a total capacity of 6000 litres and a combined Spray Arm/Pump Module which is powered from the aircraft’s 3-phase electrical supply. Designed in close co-operation with Airbus Defence & Space for easy installation on the standard aircraft Cargo Handling System (CHS) and rapid dispersant loading using Ayles Fernie designed Ground Support Equipment (GSE), the NIMBUS C295 system can be ready to fly within 2 hours and turned around within 45 minutes by trained crews. The Airbus C295 is an ideal platform for the NIMBUS system due to its low cost per flight hour.



ISO 9001:2008

## Features

- Modular Design for Easy Installation and Transportation
- Designed and Developed with Airbus Defence & Space
- 3 Tank Installation with 6000 litre Capacity
- Installed on standard Cargo Handling System
- Pressure or Gravity Fill
- Light Weight 2000 litre Capacity Tanks
- Ramp Mounted Combined Spray Arm/Pump Module
- Retractable Spray Arms
- Utilises Aircraft 3-Phase Electrical Power
- Spares and Ground Support Equipment Package
- Flight Crew, NIMBUS Operator and Ground Crew Training
- Component Qualification to RTCA 160

Intelligent solutions to oil pollution problems



## Technical Specification

### Performance

<b>Dispersant Capacity:</b>	6000 Litres (1584 USG)
<b>Flow Rate:</b>	At Least 600 LPM (158 USG/min)
<b>Effective Swath:</b>	10m (33ft)
<b>Application Rates:</b>	50 – 150 Litres/Hectare (5 – 15 USG/Acre)
<b>Area Treatment Rate:</b>	Approx 2.6 km <sup>2</sup> /hr (1 sq. mile/hr) @ 140 kts

### Tank Module

2000 litre Capacity, light-weight aluminium construction with aircraft standard paint finish, gravity fill hatch, vent valve, sight gauge, flow control valve, fork pockets & lifting eyes, inter-tank hoses with dry disconnect couplings, fitted to a 463L pallet with leak containment features.

### Spray Arm/Pump Module

Light weight aluminium construction with aircraft standard paint finish and anodised pipework, electrically powered centrifugal pump with control panel, flow control, by-pass, recirc and spray arm valves, retractable spray arms and fork pockets integral pallet with leak containment features.

### Documentation

Operating and Maintenance Manuals.

### Quality Control

Manufactured under a BS EN ISO 9001 Quality Management System.

## NIMBUS C295

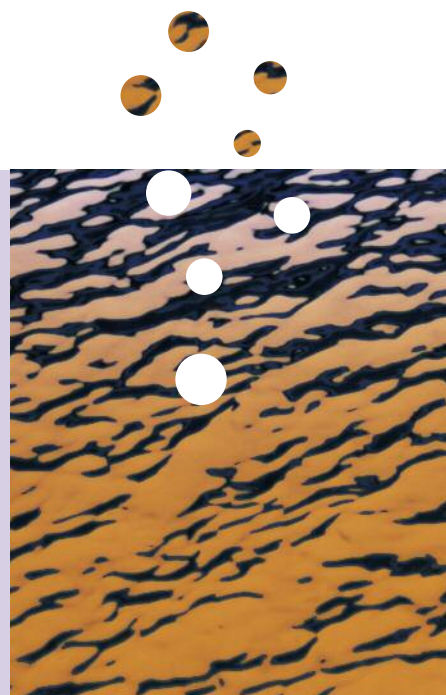
### System Benefits

- Modular Design for Easy Transportation, Handling & Storage
- Rapid Installation and Quick Response to Oil Spills
- Minor Aircraft Modification
- Easy System Drain Down and Removal to return Aircraft to Normal Operation
- Benefits from inherent Airbus C295 Aircraft Operational Flexibility and low cost per flight hour

### Options

1. Recommended Spares
2. Comprehensive Range of Ground Support Equipment
3. Approved & Recommended Dispersant
4. Initial and On-Going Flight Crew and NIMBUS Crew Training

# NIMBUS C295



# NIMBUS C295

## Description of Options

### 1. Recommended Spares

A comprehensive set of recommended spares can be supplied with each NIMBUS C295 system. Some spares (motor, pump etc) have a long lead time and it is important to stock these items to avoid disruption of training or real oil spill response activities.

### 2. Ground Support Equipment (GSE)

To ensure safe and effective storage, handling, operation and maintenance of the NIMBUS C295 system, a comprehensive range of GSE has been produced to meet almost all operational conditions. In addition, customized GSE packages can be provided to suit particular requirements. The current range of GSE includes:

- NIMBUS C295 Flat Bed Trailer Set
- GSE Storage Container
- Diesel Powered Fork Truck
- PVC Module Covers
- Module Tie Down Straps
- Drain Down Hose Kit
- Dispersant Loading Pump
- Loading Pump Suction Hose Kit and Manifold
- Loading Pump Drip Tray
- Pressure Fill Hose
- Gravity Fill Hose
- Dispersant Loading System Spares Kit
- Set of 3 x 1000 Litre Portable Dispersant Storage Tanks
- NIMBUS Crew Personal Protective Equipment
- Hose Drain Kit
- Portable Drain Down Collection Tank
- NIMBUS/GSE Cleaning & Spill Kit
- Tank and Pump Module Lifting Slings
- GPU to NIMBUS Power Cable

### 3. Recommended Dispersant

Ayles Fernie will be pleased to recommend dispersants which are suitable for use with the NIMBUS C295 system.

### 4. Flight Crew & NIMBUS Training

Flight Crew and NIMBUS Crew will require training for the safe and effective operation of the system. This training can be provided on request.

For more details on the Airbus C295 please contact:

**Airbus Defence & Space**

**Tel: +34 91 585 7387/5561**

**Email: [marketing@military.airbus.com](mailto:marketing@military.airbus.com)**

**Web: [www.airbusmilitary.com](http://www.airbusmilitary.com)**



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Ayles Fernie is committed to the on-going development of its products and product details may change from time to time. This product leaflet should be used as a guide only and Ayles Fernie will be pleased to provide specific and up to date technical information as required.

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