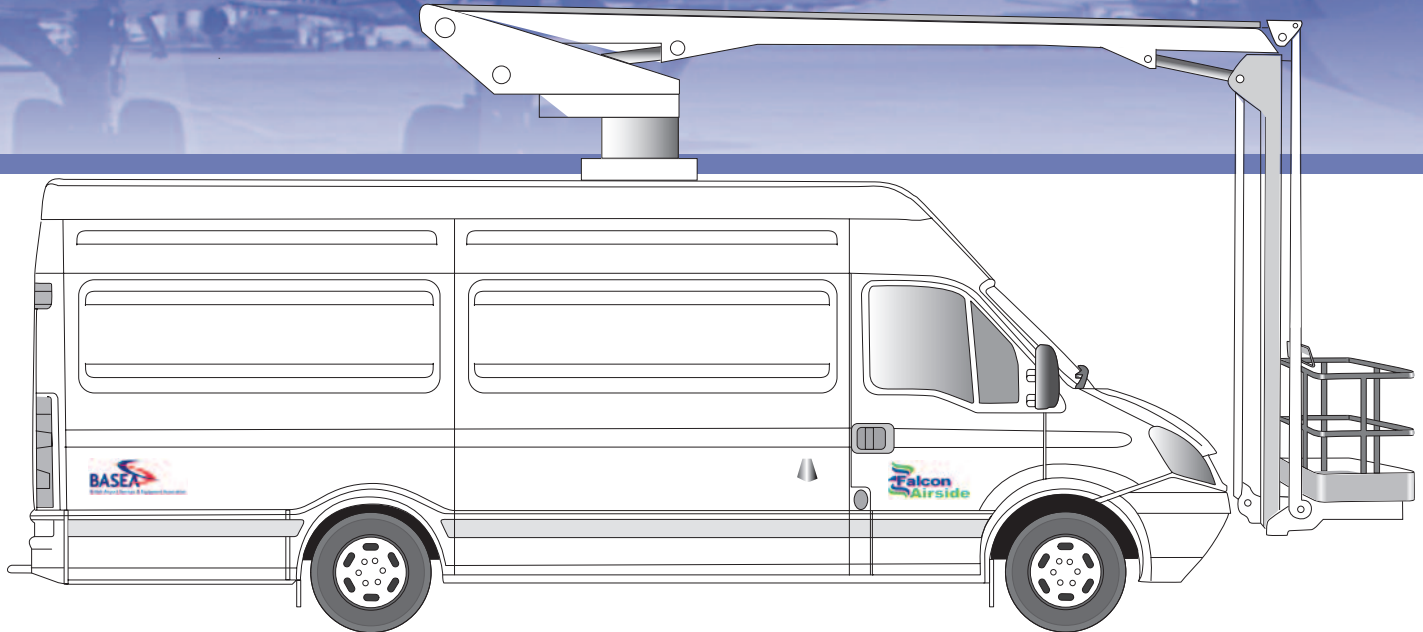




# DEICER PLANE

- a world class aircraft de-icer already in use with numerous operators.



- Comprises a comprehensive range of low-cost vehicle mounted, aircraft de-icing systems.
- Is designed for use with all narrow bodied aircraft up to B737/A320
- Incorporates a simple, rugged and reliable heating and dispensing system
- Is suitable for all current fluids
- Has a flexible, fast deployment capability
- Can be based on new or used donor vehicles with a new or fully refurbished boom
- Is supplied with new de-icing system pumps, motors, tanks, pipe work, valves and controls
- Can incorporate options such as suction fluid loading to tank; open frame basket (as illustrated) and a cab roof window. Other operator requested modifications can be discussed.



### DEMOUNTABLE TANK SYSTEM ENABES ALTEARNAIVE VEHICLE USE OUT-OF-SEASON

The removable skid mounted de-icer unit on enclosed units enables the vehicle to be used for other high level work during the rest of the year such as lamp changing or aircraft cleaning.

### RAPID DEPLOYMENT WITH NO NEED FOR STABILISERS

Boom mechanical interlocks prevent over travel and negate the requirement for stabilisers on the vehicle. The eradication of the need for stabilisers means that DEICER PLANE is more versatile and more speedily and easily deployed and used.

### SINGLE ELECTRICAL CONNECTION - ALWAYS READY FOR USE

On enclosed units a single interface with the 3-phase electrical supply coupled with the automated control system ensures that DEICER PLANE is always ready for use when required. Control interlocks ensure that the unit cannot be driven away without disconnection of the electrical supply.

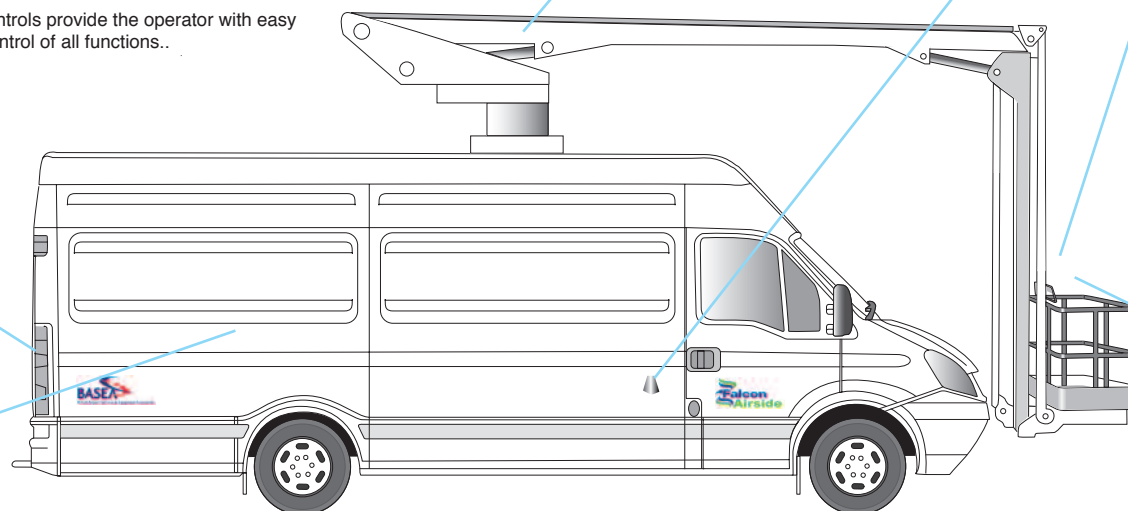
### FAST AND EFFICIENT REFILLING

On enclosed units refilling of tank is easily accomplished by partially withdrawing the unit from the vehicle on the integrated safety rail system. For high frequency or volume applications a static bulk fill unit is available providing pre-heated de-icing fluid directly to the mobile unit tank.

DEICER PLANE controls provide the operator with easy over sight and control of all functions..

### TOUGH AND EASY TO USE CONTROLS

Sophisticated, rugged, easy to use controls aid the effective and speedy deployment of DEICER PLANE



### EASY CONTROL AND DATA FOR THE OPERATOR

Easy to use controls incorporating "temperature-at-gun" instantaneous read-out. The combination of foot-pedal and de-icer gun trigger provides the operator with complete control of the de-icing process.

De-icing fluid is easily applied to the aircraft in the required quantity and accurately thus reducing waste and minimising the environmental issues arising from aircraft de-icing.



Industry standard pump units coupled with DEICER PLANE sophisticated controls protect against fluid shearing and improve the quality of the de-icing process.



A variety of base vehicles and DEICER PLANE configurations can be supplied - the unit pictured above is a commonly supplied type providing cost-effective flexibility of use.



## Outline Specifications – *subject to customer specific requirements*

*Full technical support is provided by Falcon Airside including commissioning, operator training and after-sales service.*



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### **Construction**

Enclosed units contain a fully insulated, double-skinned tank with indirect heating. The tank assembly can be mounted within a cradle which in turn is fitted to a roller sub-frame allowing the whole tank to easily be partially withdrawn from the vehicle for re-filling.

Open units may be equipped with the system described above or a direct heating system fed from a single skinned tank.

### **Indirect Heating system**

On enclosed units fluid heating is achieved electrically. The heating control panel incorporates an outside temperature (Frostat) control with the entire heating cycle being fully automated but retaining manual override facilities. The electrical supply is connected to DEICERplane via a single 3-phase power point located on the outside of the vehicle. A direct temperature gauge and a sight glass provide local indication of the tank temperature and contents. Fluid heat-up time is reduced by use of an electrically driven submerged rotary paddle agitator within the tank driven at low-speed during the heating cycle.

Overall power consumption and heat up times to 850C fluid temperature are governed by the tank fluid levels and ambient temperature at the start of the cycle.

### **Fluid application**

The pumping system utilised is a Hardi pump coupled to a hydraulic motor driven from the vehicle PTO. An A J Bean model 785 dispensing gun is used together with a "dead man's pedal" in the boom basket for "on demand" dispensing. Stainless steel piping and high specification heat resistant hoses are used throughout. Metering of fluid outflow is monitored in the boom basket by the operator as is fluid delivery temperature utilising our unique "Temperature-at-Gun" system with digital temperature indication.

### **Capacity**

Standard tank capacities of 100 gallons/454 litres, 300 gallons/1362 litres and 500 gallons/2270 litres are available with other sizes capable of being produced to special order. On enclosed units the tank may be easily de-mounted to enable the vehicle to be utilised for other purposes during the summer months.

### **Maintenance**

Both the host vehicle and the access boom can be serviced and supported in a normal commercial vehicle workshop environment. The heating modules require periodic visual inspection during use and flushing through with water prior to summer de-commissioning. All electrical circuits have built in monitoring and failure indication lights. Full electrical circuit diagrams and schematics are located within the main control panel. Full operational and maintenance manuals are provided.

### **Conformity**

The unit conforms to IATA section AHM977 regulations, CEN 12312-6.  
The "Temperature-at-Gun" module conforms to IATA- AHM 975 and 977, ISO DIS 11077 & ISO DIS 11078 requirements.

### **Training**

Full initial training in safe and effective operation and routine inspection procedures is provided as part of the commissioning process and is included in the price.

### **Warranty**

Host vehicle  
New - as manufacturer's warranty  
Used – no warranty  
DEICERplane module – 90 days parts and labour in the first instance followed by 90 days parts only.