

ExpressJet EMB-145

Charter Aircraft Information

The following information is being provided for informational purposes only regarding ExpressJet Charter Aircraft. If you have any questions please contact charterops@expressjet.com

Aircraft Specifications – Embraer 145XR

Seating Capacity	41 seats / 50 seats
Maximum Ramp Weight	53351
Maximum Takeoff Weight	53131
Maximum Landing Weight	44092
Manufacturer Range	1500 nautical miles
Engines - 2 rear mounted	Alison AE3007A1E
Wingspan - feet/inches	68' 11"
Tail height - feet/inches	22' 2"
Overall length – feet/inches	98'
Crew Requirements	Flightdeck 2, Flight Attendant 1
Cargo bin capacity	2,646 pounds
Cargo bin max bearing weight	80 pounds per sq ft
Clearance:	
Main Cabin Door (feet / inches)	(Located aircraft left) Max 5' 2.2" Min 4' 9.4"
Service Door (feet / inches)	(Located aircraft right) Max 5' 2" Min 4' 9.5"
Baggage Door (feet / inches)	(Located aircraft left) Max 5' 11" Min 5' 5.5"
Wing Tip (feet / inches)	Max 6' 11.3" Min 6' 6.7"



Aircraft Specifics

EMB-145XR is classified as a "Dual" landing gear configuration. The ACN values at the maximum ramp weight are as follows:

	Rigid				Flexible			
	A	B	C	D	A	B	C	D
	15.1	15.7	16.5	17	12.7	13.3	15.3	16.6

Aircraft Specifications – Embraer 145LR

Seating Capacity	41 seats / 50 seats
Maximum Ramp Weight	46495
Maximum Takeoff Weight	46275
Maximum Landing Weight	41226
Manufacturer Range	1200 nautical miles
Engines - 2 rear mounted	Alison AE3007A
Wingspan - feet/inches	65' 9"
Tail height - feet/inches	22' 2"
Overall length – feet/inches	98'
Crew Requirements	Flightdeck 2, Flight Attendant 1
Cargo bin capacity	2,646 pounds
Cargo bin max bearing weight	80 pounds per sq ft
Clearance:	
Main Cabin Door (feet / inches)	(Located aircraft left) Max 5' 2.2" Min 4' 9.4"
Service Door (feet / inches)	(Located aircraft right) Max 5' 2" Min 4' 9.5"
Baggage Door (feet / inches)	(Located aircraft left) Max 5' 11" Min 5' 5.5"
Wing Tip (feet / inches)	Max 6' 11.3" Min 6' 6.7"



Fueling Operations

The EMB-145 XR has two wing tanks and a ventral tank.

Left Wing Tank (pounds)	5, 717	Right Wing Tank (pounds)	5, 717	Ventral Tank	1, 810
		Maximum Pressure Refueling value	13,119		

The EMB-145 LR has two wing tanks.

Left Wing Tank (pounds)	5,628	Right Wing Tank (pounds)	5,628		
		Maximum Pressure Refueling value	11,256		

Winter Operations:

The EMB-145 would normally use 50-75 gallons of glycol during the winter season when no falling precipitation exists. During times of falling precipitation expect to spray approximately 100 – 155 gallons of de-ice / anti-ice fluid.

Acceptable types of de-ice / anti-ice fluid are listed below. **Type II is NOT permitted on ExpressJet aircraft.**

Type I (propylene glycol)	Recommended mixture of 50% Type I fluid to 50% water
Type III (certified under AMS 1428D)	Recommended mixture of 50% Type I fluid to 50% water
Type IV	Type IV fluids may be mixed with water to remove accumulations or sprayed to place an even coating across the aircraft control surfaces (wings, tail, rudder).

Approved Type I fluids:

Kilfrost DF Plus	Clear/Orange	PG
Kilfrost DF Plus 80	Clear/Orange	PG
Kilfrost DF Plus 88	Orange	PG
Artic Plus Concentrate	Orange/Red	PG
Artic Plus Dilute	Orange/Red	PG
KHF – 1	Clear	PG
KLA – 1	Clear	EG
Safewing EGI 1996	Orange	EG
Safewing MPI 1938 ECO	Orange	PG
Safewing MPI 1938 TF/ Pre- Mix	Orange	PG
UCAR ADF Concentrate	Orange	PG
UCAR ADF XL-54	Orange	EG
UCAR PG ADF Concentrate	Orange	PG
UCAR PG ADF Dilute 55/45	Orange	PG
SafeTemp I ES	Clear/Orange	PG
Safe Temp I ES Plus	Clear/Orange	PG
Arco Plus Dilute	Red/Orange	PG
Arco Plus Concentrate	Red/Orange	PG
FCY – 1A	Colorless	EG
Octaflow EF	Orange	PG
Octaflow EG	Orange	EG
DE-950		
Jarkleer SAF Type I		

Approved Type IV fluids:

MaxFlight / MaxFlight 04
MaxFlo
Safewing MP-IV 2001
Safewing MP-IV 2012 Protect
Safewing MP-IV 2030 ECO
Safewing MP IV Launch
Arctic Shield
UCAR AAF Ultra +
UCAR Flightguard AD – 480
Kilfrost ABC-S
Kilfrost ABC-S Plus
SPCA AD-480

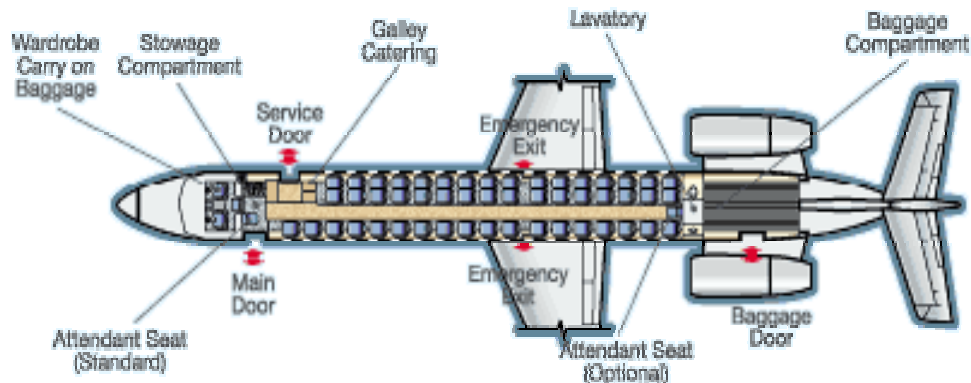
Approved Type III fluid:

Safewing MP-III 2031 ECO	Pale straw	PG
--------------------------	------------	----

Ramp Handling Operations:

The following list defines ground equipment specifications that may be required for use on the EMB-145 XR.

- ❑ **Passenger stairs** – The aircraft will normally be equipped with fixed air-stairs however, during times of an equipment change pull up stairs may be required. Stairs must be 4 ft 8 inches plus or minus 3 inches.
- ❑ **Ground Power** – 28.5 volt or 90 KVA ground power unit
- ❑ **Pushback** – Can be accomplished with an ERJ 145-towbar that can withstand a 4000 lb. draw on it. A Lektro tug may also be used but with only an ERJ strut-strap.
- ❑ **Airstart** – This would only be used on the rare occasion the Airplane Power Unit is inoperative
- ❑ **Beltloader** or catering stairs for baggage unloading



Aircraft Appearance Operations:

Potable water servicing: Fill the tank until water starts to flow out through the water overflow connection. The minimum filling pressure is 35 psi.

Lavatory servicing: Flush the waste tank with four (4) gallons of de-germ water mix. Fill with two (2) gallons of degerm fluid. Make sure that the fluid pressure is between a range of 35 – 50 psi.

We would appreciate you using the attached **FBO Handling Request for Quote** sheet on the next page to assist us in choosing the FBO that suits our customer's needs.