



TYPE-CERTIFICATE

DATA SHEET

NO. EASA.BA.524

for
HOT AIR BALLOONS

Type Certificate Holder
FlyDOO Sarl

205 Chemin des Clots
05130, Lettret
France

For models: WeDOO (WD)



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SECTION A: FLYDOO MODEL WeDOO (WD)

A.I General

1. Model	WeDOO
2. Airworthiness Category	Standard
3. Type Certificate Holder	FlyDOO Sarl 205 Chemin des Clots 05130, Lettret France
4. Manufacturer	See A.I.3
5. Type Certification Application Date	19 December 2019
6. State of Design Authority	EASA
7. EASA Type Certification Date	18 July 2023

A.II EASA Certification Basis

1. Reference Date for determining the applicable requirements	19 December 2019
2. Airworthiness Requirements	CS-31HB, Amdt. 1 Fuel cylinders only: LFHB (LBA), 23 February 1982
3. Special Conditions	SC-CS31HB.28-01 Launch Restraint
4. Equivalent Safety Findings	none
5. Exemptions	none
6. Deviations	none



A.III Technical Characteristics and Operational Limitations

1. Type Design Definition WD22-TLC-01_00 Top Level Configuration
2. Description Free hot air balloon with a natural shaped envelope of 2 200 m³ volume, available as standard version with conventional load tapes, or, ultralight version (UL) with a combination of conventional sewn load tapes and novel 'floating' load lines, with conventional controls.; single coil double burner; stainless steel fuel cylinders; basket with PVC-lined foam walls and a tubular steel frame. Refer to Table 1 for the configuration details of variants;.
3. Equipment Standby source of ignition for the pilot light or burner
Envelope temperature indicator
Rate of climb/descent indicator (variometer)
Fire extinguisher
Pressure gauge for each burner
Fuel quantity gauge for each fuel cylinder
Launch restraint with quick-release
4. Envelope Definition: MDL-WD22-16-00
Volume: 2 200 m³
17.4 m Height from mouth
16.6 m Width
600 kg MTOM:
5. Burner PockJET2
Definition: MDL-PKJ2-00_C1
6. Basket EXplorer1200
Definition: MDL-EX120-00_C1

127 cm x 95 cm Floor dimensions: (internal)
79 kg Basket mass: (including load frame)
500 kg Payload:
Load frame: P/N EX120-BF:
85.7 x 65.0 cm dimensions
7. Fuel Cylinder Definition: FD50_FD_70 and
FD50_FD70 Cylinders Parts Catalog
Volume: 2 200 m³
MTOM: 600 kg
 - FD50:
Capacity: 21.2 kg
Height: 88 cm
 - FD70:
Capacity: 30.0 kg
Height: 92 cm



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| 8. Mass | 600 kg
MTOM for launch field elevation (launch altitude)
and corresponding ambient air temperature
according to approved Flight Manual data |
| 9. Envelope Temperature | Maximum 120°C |
| 10. Maximum Operating Altitude | 10 000 ft (3 048 m) |
| 11. Minimum Flight Crew | 1 pilot |
| 12. Maximum number of persons on board | 3 persons, according to approved Flight Manual |
| 13. Other limitations | VFR day, free flight (non-tethered) |
| 14. Life-limited Parts | Refer to the approved Airworthiness Limitation
Section (ALS) of the Maintenance Manual |

A.IV Operating and Service Instructions

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| 1. Flight Manual | For WD22-16 and WD22-16UL:
AFM_01_00, Ed.1 Rev.0, or later approved revisions |
| 2. Maintenance Manual | For WD22-16 and WD22-16UL:
AMM ENV_01_00, Ed.1 Rev.0, or later accepted
revisions.

For EXplorer1200:
AMM-BAS_01_00, Ed.1 Rev.0, or later accepted
revisions.

For PockJET2:
AMM BUR_01_00, Ed.1 Rev.0, or later accepted
revisions. |
| 3. Service Letters and Service Bulletins | As published by FlyDOO Sarl. |

A.V Notes

Manufacturing is conditioned to the obtention of a production organisation approval, a valid letter of agreement in accordance with Part 21 Subpart F, or a valid declaration in accordance with 21L subpart G, with satisfactory coordination between design and production (ref. EU No. 748/2012).

Manufacturer's eligible serial numbers:

- Envelope WeDOO, s/n WD-C-001 and following
- Burner PockJET2 model 'PKJ2', s/n PJ02002, and following
- Basket EXplorer1200 (Type EX Model 120), s/n 002, and following



A.VI FlyDOO WeDOO (WD) variants details

WD envelopes denomination: WD[XX-YY(UL)] : (XX for volume, YY for number of gores, UL for the Ultralight version)

Variant	Vol. (m³)	MTOM (kg)	Envelope mass (kg)	MLM (kg)	Burner	Basket	Certification Date	CS-31HB Amdt
WD22-16	2 200	600	65	200	PockJET2	EXplorer1200	18-07-23	1
WD22-16UL	2 200	600	55	200	PockJET2	EXplorer1200	18-07-23	1

Table 1 Variant information and equipment compatibility

For more information, please refer to the approved AFM and Maintenance Manuals



SECTION B: ADMINISTRATIVE SECTION

B.I Acronyms & Abbreviations

MTOM	Maximum Take-Off Mass
Amdt.	Amendment
LBA	Luftfahrt-Bundesamt (Germany)
LFHB	Lufttüchtigkeitsforderungen für Heißluftballone (Germany)
P/N	Part number
s/n	Serial number
VFR	Visual Flight Rules

B.II Type Certificate Holder Record

Type Certificate Holder	Period
FlyDOO Sarl, 205 Chemin des Clots, 05130, Lettret, France	from 18 July 2023

B.III Change Record

Issue	Date	Changes	TC Issue No. & Date
Issue 01	18 July 2023	Initial Issue of EASA TCDS	Initial Issue, 18 July 2023

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