

CATALOGUE CARD AGRO HT KARTA KATALOGOWA AGRO HT

GENERAL INFORMATION | INFORMACJE OGÓLNE

EN

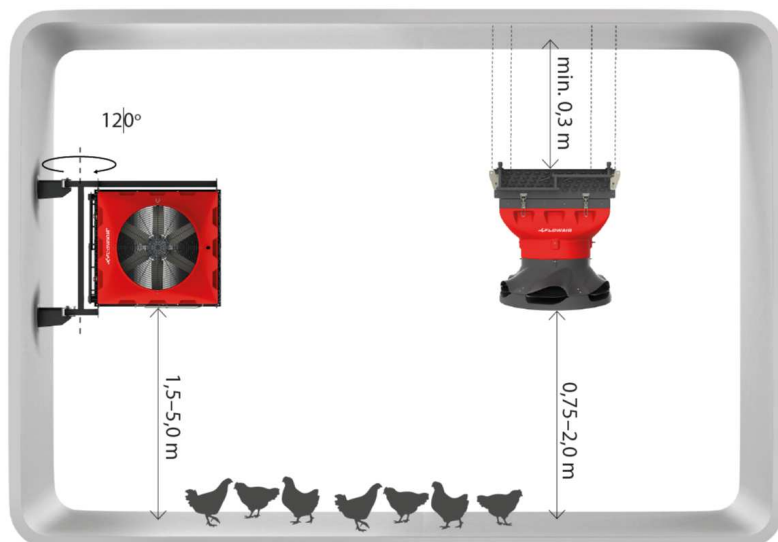


- Fan heater dedicated for agricultural and aggressive environment
- Casing made of ABS material
- Heat exchanger coated with special cathaphoresis layer proof the unit against corrosion
- Fan is equipped with three phase IP55 motor
- Lamellas on the exchanger are thicker than ordinary and can be cleaned with pressured water
- Locking latches give easy access to interior of the unit what significantly reduces time of service and maintenance work.
- Main purposes: poultry farms, livestock (pig) rearing

PL

- Wodna nagrzewnica powietrza przeznaczona do pracy w budynkach agrarnych oraz w środowiskach korozyjnych
- Obudowa z tworzywa ABS
- Wymiennik ciepła z antykorozyjną powłoką kataforetyczną
- Silnik o współczynniku ochrony IP55
- Grubsze lamele wymiennika oraz zwiększony ich rozstaw umożliwiają mycie urządzenia wodą pod ciśnieniem
- Klamry łączące wymiennik z konfuzorem pozwalają na bardzo łatwy dostęp do wnętrza aparatu oraz utrzymanie go w czystości
- Główne przeznaczenie: fermy drobiu, chlewnie

INSTALATION I MOŻLIWOŚĆ MONTAŻU



Optional equipment | Wyposażenie opcjonalne:

- Outlet diffuser | Nawiewnik



- Rotary console | Konsola obrotowa

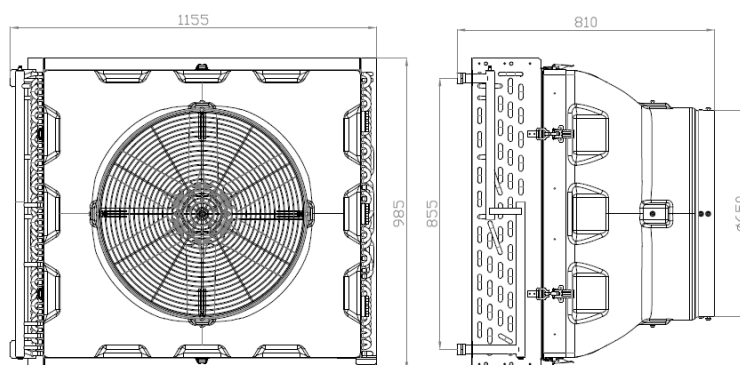


- Ceiling mount handles | Uchwyty podstropowe



TECHNICAL DATA I DANE TECHNICZNE

AGRO HT 3 | HT 5



| | AGRO HT 3 | AGRO HT 5 |
|--|------------|-----------|
| Max airflow [m³/h] Max. strumień przepływu powietrza [m³/h]* | 10 000 | 9 000 |
| Power supply [V/Hz] Zasilanie [V/Hz] | 3x400 / 50 | |
| Max current consumption [A] Max. pobór prądu [A] | 1,6 | |
| Max. power consumption [W] Max. pobór mocy [W] | 630 | |
| IP/ Insulation class IP/Klasa izolacji | 55 / F | |
| Max acoustic pressure level [dB(A)] Max. poziom ciśnienia akustycznego [dB(A)]** | 72,8 | |
| Max heating water temperature [°C] Max. temp. wody grzewczej [°C] | 95 | |
| Max operating pressure [MPa] Max. ciśnienie robocze [MPa] | 1,6 | |
| Connection Przyłącze | 1" | |
| Device mass [kg] Masa urządzenia [kg] | 73 | 85 |
| Mass of device filled with water [kg] Masa urządzenia napełnionego wodą [kg] | 83 | 102 |
| Revolutions per minute [rpm] Prędkość obrotowa [obr/min] | 955 | |
| Max. air stream without 6-SIDE OUTLET DIFFUSER [m] Zasięg bez NAWIEWNIKA AGRO HT [m]*** | 48 | 43 |
| Max. air stream with 6-SIDE OUTLET DIFFUSOR [m/side] Zasięg z NAWIEWNIKIEM AGRO HT [m/side]*** | 15 | |

*without 6-side outlet diffuser | bez nawiewnika AGRO HT

**Acoustic pressure level has been measured 5m from the unit in a 1500m³ space with a medium sound absorption coefficient |

Poziom ciśnienia akustycznego dla pomieszczenia o średniej zdolności pochłaniania dźwięku, objętości 1500m³, w odległości 5 m od urządzenia

*** Range of horizontal isothermal air stream, at 0,5 m/s velocity limit | Zasięg poziomy strumienia izotermicznego przy prędkości granicznej 0,5 m/s

HEATING CAPACITY I TABELE MOCY GRZEWCZYCH

| AGRO HT 3 | | | | | | | | | | | | | | | | | | | | |
|---------------------|-------|-------|-------|---------------------|-------|-------|-------|---------------------|------|-------|-------|---------------------|------|-------|-------|---------------------|------|-------|-------|------|
| TP1 | PT | Qw | Δpw | TP2 | PT | Qw | Δpw | TP2 | PT | Qw | Δpw | TP2 | PT | Qw | Δpw | TP2 | PT | Qw | Δpw | TP2 |
| [°C] | [kW] | [l/h] | [kPa] | [°C] | [kW] | [l/h] | [kPa] | [°C] | [kW] | [l/h] | [kPa] | [°C] | [kW] | [l/h] | [kPa] | [°C] | [kW] | [l/h] | [kPa] | [°C] |
| Tw1 / Tw2 = 90/70°C | | | | Tw1 / Tw2 = 80/60°C | | | | Tw1 / Tw2 = 70/50°C | | | | Tw1 / Tw2 = 60/40°C | | | | Tw1 / Tw2 = 50/40°C | | | | |
| V = 10000 [m³/h] | | | | | | | | | | | | | | | | | | | | |
| 0,0 | 117,0 | 5156 | 98,0 | 32,5 | 102,0 | 4454 | 77,0 | 28,0 | 86,3 | 3760 | 50,0 | 24,0 | 70,9 | 3074 | 42,0 | 19,5 | 65,0 | 5630 | 128,0 | 18,0 |
| 5,0 | 108,0 | 4778 | 85,0 | 35,5 | 93,2 | 4085 | 66,0 | 31,5 | 78,0 | 3400 | 48,0 | 27,0 | 62,7 | 2722 | 34,0 | 23,0 | 57,0 | 4937 | 101,0 | 21,0 |
| 10,0 | 100,0 | 4404 | 74,0 | 38,5 | 84,9 | 3723 | 56,0 | 34,5 | 69,9 | 3047 | 40,0 | 30,0 | 54,8 | 2376 | 26,0 | 25,5 | 49,2 | 4258 | 77,0 | 24,0 |
| 15,0 | 91,7 | 4043 | 63,0 | 42,0 | 76,8 | 3368 | 47,0 | 37,5 | 61,9 | 2699 | 32,0 | 33,0 | 46,9 | 2035 | 20,0 | 28,5 | 41,5 | 3592 | 57,0 | 27,0 |
| 20,0 | 83,6 | 3686 | 53,0 | 45,0 | 68,9 | 3019 | 38,0 | 40,5 | 54,1 | 2358 | 25,0 | 36,0 | 39,1 | 1697 | 14,0 | 31,5 | 33,9 | 2937 | 39,0 | 30,0 |
| 25,0 | 75,7 | 3335 | 44,0 | 48,0 | 61,1 | 2676 | 31,0 | 43,5 | 46,4 | 2021 | 19,0 | 39,0 | 31,4 | 1362 | 10,0 | 34,5 | 26,5 | 2292 | 25,0 | 33,0 |
| 30,0 | 67,8 | 2991 | 36,0 | 51,0 | 53,4 | 2339 | 24,0 | 46,5 | 38,7 | 1688 | 14,0 | 42,0 | 23,6 | 1024 | 5,5 | 37,0 | 19,1 | 1652 | 14,0 | 36,0 |
| 35,0 | 60,2 | 2652 | 29,0 | 54,0 | 45,8 | 2006 | 18,0 | 49,0 | 31,1 | 1356 | 9,0 | 45,0 | 15,4 | 668 | 2,5 | 40,0 | 11,6 | 1004 | 6,0 | 38,5 |

| AGRO HT 5 | | | | | | | | | | | | | | | | | | | | |
|---------------------|-------|-------|-------|---------------------|-------|-------|-------|---------------------|-------|-------|-------|---------------------|------|-------|-------|---------------------|------|-------|-------|------|
| TP1 | PT | Qw | Δpw | TP2 | PT | Qw | Δpw | TP2 | PT | Qw | Δpw | TP2 | PT | Qw | Δpw | TP2 | PT | Qw | Δpw | TP2 |
| [°C] | [kW] | [l/h] | [kPa] | [°C] | [kW] | [l/h] | [kPa] | [°C] | [kW] | [l/h] | [kPa] | [°C] | [kW] | [l/h] | [kPa] | [°C] | [kW] | [l/h] | [kPa] | [°C] |
| Tw1 / Tw2 = 90/70°C | | | | Tw1 / Tw2 = 80/60°C | | | | Tw1 / Tw2 = 70/50°C | | | | Tw1 / Tw2 = 60/40°C | | | | Tw1 / Tw2 = 50/40°C | | | | |
| V = 9000 [m³/h] | | | | | | | | | | | | | | | | | | | | |
| 0,0 | 158,0 | 6964 | 120,0 | 48,5 | 138,0 | 6034 | 95,0 | 42,0 | 117,0 | 5115 | 73,0 | 36,0 | 96,9 | 4206 | 52,0 | 30,0 | 87,7 | 7597 | 157,0 | 27,0 |
| 5,0 | 146,0 | 6451 | 105,0 | 51,0 | 126,0 | 5535 | 81,0 | 44,5 | 106,0 | 4629 | 61,0 | 38,0 | 86,0 | 3731 | 42,0 | 32,0 | 77,0 | 6667 | 123,0 | 29,0 |
| 10,0 | 135,0 | 5950 | 90,0 | 53,0 | 115,0 | 5047 | 69,0 | 46,5 | 95,3 | 4153 | 50,0 | 40,5 | 75,3 | 3265 | 33,0 | 34,0 | 66,5 | 5758 | 94,0 | 31,0 |
| 15,0 | 124,0 | 5460 | 77,0 | 55,0 | 104,0 | 4569 | 57,0 | 49,0 | 84,6 | 3687 | 40,0 | 42,5 | 64,7 | 2807 | 25,0 | 36,0 | 56,2 | 4869 | 70,0 | 33,0 |
| 20,0 | 113,0 | 4981 | 65,0 | 57,5 | 93,6 | 4102 | 47,0 | 51,0 | 74,1 | 3229 | 31,0 | 44,5 | 54,3 | 2355 | 18,0 | 38,0 | 46,2 | 3997 | 49,0 | 35,0 |
| 25,0 | 102,0 | 4512 | 54,0 | 59,5 | 83,1 | 3643 | 38,0 | 53,0 | 63,7 | 2779 | 24,0 | 46,5 | 43,9 | 1906 | 12,0 | 40,0 | 36,3 | 3139 | 31,0 | 37,0 |
| 30,0 | 91,9 | 4052 | 45,0 | 61,5 | 72,9 | 3193 | 30,0 | 55,0 | 53,5 | 2334 | 17,0 | 48,0 | 33,5 | 1451 | 8,0 | 41,0 | 26,4 | 2289 | 18,0 | 39,0 |
| 35,0 | 81,7 | 3600 | 36,0 | 63,0 | 62,7 | 2750 | 23,0 | 57,0 | 43,5 | 1891 | 12,0 | 50,0 | 22,4 | 971 | 3,0 | 43,0 | 16,4 | 1424 | 8,0 | 41,0 |

V - airflow / przepływ powietrza
 PT - heat capacity / moc grzewcza
 TP1 - inlet air temp. / temperatura powietrza na wlocie do aparatu
 TP2 - outlet air temp. / temperatura powietrza na wylocie z aparatu

Tw1 - inlet water temp. / temperatura wody na zasilaniu wymiennika
 Tw2 - outlet water temp. / temperatura wody na powrocie z wymiennika
 Qw - water flow rate / strumień przepływu wody grzewczej
 Δpw - pressure drop of water / spadek ciśnienia wody w wymienniku

CONTROL | STEROWANIE

| | | | |
|---|--|--|--|
| R55  | Room thermostat with increased IP Termostat pomieszczeniowy o podwyższonym stopniu ochrony | SRV2d IP65-1  | Two-way electrovalve with actuator Dwudrogowy elektrozawór z siłownikiem |
| SZS AGRO HT  | Control box Szafa zabezpieczająco-sterując | FAL-0,75 3x400  | Inverter-0,75 3x400V Falownik-0,75 3x400V |