

DEKLARACJA WŁAŚCIWOŚCI UŻYTKOWYCH
(DECLARATION OF PERFORMANCE)

Nr (No.) **NDWU/1/AFRO NEW X 2/2023**

| 1. Niepowtarzalny kod identyfikacyjny typu wyrobu (Unique identification code of the product-type): AFRO NEW X 2 | | |
|--|---|--|
| 2. Zamierzone zastosowanie lub zastosowania: W instalacjach grzewczych w budynkach (Intended use/es: In heating systems in buildings) | | |
| 3. Producent (Manufacturer): INSTAL PROJEKT sp. z o. o., ul. Jana Pawła II 12 A, Nowa Wieś k/Włocławka, 87-853 Kruszyn, Polska (INSTAL PROJEKT sp. z o. o., Jana Pawła II 12 A str., Nowa Wieś near Włocławka, 87-853 Kruszyn, Poland.) | | |
| 4. System(-y) oceny i weryfikacji stałości właściwości użytkowych (System/s of AVCP): System 3 | | |
| 5. Norma zharmonizowana (Harmonised standard): EN 442-1:2014 | | |
| 6. Jednostka lub jednostki notyfikowane (Notified body/ies): Universität Stuttgart Institut für Gebäudeenergetik, Thermotechnik und Energiespeicherung (IGTE). Numer jednostki notyfikowanej (Notification no.): 0626. | | |
| 7. Deklarowane właściwości użytkowe (Declared performance/s): | | |
| Zasadnicze charakterystyki | Właściwości użytkowe | Zharmonizowana specyfikacja techniczna |
| Essential characteristics | Performance | Harmonised technical specification |
| Reakcja na ogień (Reaction to fire) | A1 | EN 442-1:2014 |
| Uwalnianie substancji niebezpiecznych (Release of dangerous substances) | Nie ma (None) | |
| Szczelność pod działaniem ciśnienia (Pressure tightness) | Brak przecieku przy ciśnieniu 1,3 krotnie większym od maksymalnego ciśnienia [kPa] (No leakage at 1,3 x maximum operating pressure [kPa]) | |
| Temperatura powierzchni (Surface temperature) | Maksymalnie 95 °C (Maximum 95 °C) | |
| Odporność na działanie ciśnienia (Resistance to pressure) | Brak pęknięć przy ciśnieniu 1,69 krotnie większym od maksymalnego dopuszczalnego ciśnienia roboczego [kPa]. (No breakage at 1,69 x maximum operating pressure [kPa]) | |
| | Maksymalne dopuszczalne ciśnienie robocze: 700 [kPa] (Maximum operating pressure) | |
| Nominalna moc cieplna (Φ 50 , Φ 30) (Rated thermal output) (Φ 50 , Φ 30) | Patrz Tabela nr.1 (See Table No.1) | |
| Moc cieplna w różnych warunkach eksploatacyjnych (charakterystyka) (Thermal output in different operating conditions (characteristic curve)) | Patrz Tabela nr.1 (See Table No.1) | |
| Odporność na korozję (Resistance against corrosion) | Brak korozji po 100 h w wilgoci (No corrosion after 100 h humidity) | |
| Odporność na słabe uderzenia (Resistance against minor impact) | Klasa 0 (Class 0) | |
| 8. Właściwości użytkowe określonego powyżej wyrobu są zgodne z zestawem deklarowanych właściwości użytkowych. Niniejsza deklaracja właściwości użytkowych wydana zostaje zgodnie z rozporządzeniem (UE) nr 305/2011 na wyłączną odpowiedzialność producenta określonego powyżej. (The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.) | | |

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Tabela nr 1

(Table no. 1)

| Model grzejnika | Normalna moc cieplna [W] (75/65/20°C) φ50 | Moc cieplna [W] (55/45/20°C) φ30 | Wykładnik n | ΔT | K _M | Moc cieplna w różnych warunkach eksploatacji | | | |
|-----------------|--|--|------------------|----|----------------|---|----------|------|--------|
| Radiator model | Rated thermal output (75/65/20°C) φ50 | Rated thermal output (55/45/20°C) φ30 | Index exponent n | ΔT | K _M | Thermal output in different operating conditions (characteristic curve) | | | |
| AFRNX2-030/13 | 237 | 124 | 1,2592 | 50 | 1,71719 | φ = | 1,71719 | x ΔT | 1,2592 |
| AFRNX2-030/18 | 315 | 165 | 1,2680 | 50 | 2,20984 | φ = | 2,20984 | x ΔT | 1,2680 |
| AFRNX2-030/26 | 434 | 225 | 1,2820 | 50 | 2,87740 | φ = | 2,87740 | x ΔT | 1,2820 |
| AFRNX2-030/32 | 519 | 268 | 1,2925 | 50 | 3,30527 | φ = | 3,30527 | x ΔT | 1,2925 |
| AFRNX2-030/37 | 588 | 302 | 1,3012 | 50 | 3,61863 | φ = | 3,61863 | x ΔT | 1,3012 |
| AFRNX2-030/45 | 680 | 347 | 1,3152 | 50 | 3,96282 | φ = | 3,96282 | x ΔT | 1,3152 |
| AFRNX2-030/54 | 817 | 417 | 1,3152 | 50 | 4,75991 | φ = | 4,75991 | x ΔT | 1,3152 |
| AFRNX2-030/63 | 953 | 487 | 1,3152 | 50 | 5,55134 | φ = | 5,55134 | x ΔT | 1,3152 |
| AFRNX2-030/72 | 1088 | 556 | 1,3152 | 50 | 6,34277 | φ = | 6,34277 | x ΔT | 1,3152 |
| AFRNX2-030/81 | 1224 | 625 | 1,3152 | 50 | 7,13421 | φ = | 7,13421 | x ΔT | 1,3152 |
| AFRNX2-030/90 | 1361 | 695 | 1,3152 | 50 | 7,93129 | φ = | 7,93129 | x ΔT | 1,3152 |
| AFRNX2-040/13 | 335 | 175 | 1,2658 | 50 | 2,36611 | φ = | 2,36611 | x ΔT | 1,2658 |
| AFRNX2-040/18 | 445 | 232 | 1,2764 | 50 | 3,02008 | φ = | 3,02008 | x ΔT | 1,2764 |
| AFRNX2-040/23 | 551 | 285 | 1,2871 | 50 | 3,58406 | φ = | 3,58406 | x ΔT | 1,2871 |
| AFRNX2-040/26 | 613 | 317 | 1,2934 | 50 | 3,89082 | φ = | 3,89082 | x ΔT | 1,2934 |
| AFRNX2-040/28 | 654 | 337 | 1,2977 | 50 | 4,08017 | φ = | 4,08017 | x ΔT | 1,2977 |
| AFRNX2-040/32 | 733 | 376 | 1,3062 | 50 | 4,42689 | φ = | 4,42689 | x ΔT | 1,3062 |
| AFRNX2-040/37 | 830 | 424 | 1,3168 | 50 | 4,80886 | φ = | 4,80886 | x ΔT | 1,3168 |
| AFRNX2-040/45 | 960 | 486 | 1,3338 | 50 | 5,20380 | φ = | 5,20380 | x ΔT | 1,3338 |
| AFRNX2-040/54 | 1152 | 583 | 1,3338 | 50 | 6,24456 | φ = | 6,24456 | x ΔT | 1,3338 |
| AFRNX2-040/63 | 1344 | 680 | 1,3338 | 50 | 7,28532 | φ = | 7,28532 | x ΔT | 1,3338 |
| AFRNX2-040/72 | 1536 | 777 | 1,3338 | 50 | 8,32608 | φ = | 8,32608 | x ΔT | 1,3338 |
| AFRNX2-040/81 | 1730 | 875 | 1,3338 | 50 | 9,37210 | φ = | 9,37210 | x ΔT | 1,3338 |
| AFRNX2-040/90 | 1922 | 972 | 1,3338 | 50 | 10,41286 | φ = | 10,41286 | x ΔT | 1,3338 |
| AFRNX2-060/13 | 456 | 236 | 1,2921 | 50 | 2,90824 | φ = | 2,90824 | x ΔT | 1,2921 |
| AFRNX2-060/18 | 607 | 313 | 1,2982 | 50 | 3,78219 | φ = | 3,78219 | x ΔT | 1,2982 |
| AFRNX2-060/23 | 727 | 373 | 1,3043 | 50 | 4,41862 | φ = | 4,41862 | x ΔT | 1,3043 |
| AFRNX2-060/26 | 835 | 428 | 1,3079 | 50 | 5,00832 | φ = | 5,00832 | x ΔT | 1,3079 |
| AFRNX2-060/28 | 861 | 441 | 1,3104 | 50 | 5,11510 | φ = | 5,11510 | x ΔT | 1,3104 |
| AFRNX2-060/32 | 999 | 510 | 1,3152 | 50 | 5,82269 | φ = | 5,82269 | x ΔT | 1,3152 |
| AFRNX2-060/37 | 1132 | 576 | 1,3213 | 50 | 6,44160 | φ = | 6,44160 | x ΔT | 1,3213 |
| AFRNX2-060/45 | 1267 | 642 | 1,3310 | 50 | 6,94042 | φ = | 6,94042 | x ΔT | 1,3310 |
| AFRNX2-060/54 | 1520 | 770 | 1,3310 | 50 | 8,32744 | φ = | 8,32744 | x ΔT | 1,3310 |
| AFRNX2-060/63 | 1773 | 898 | 1,3310 | 50 | 9,71446 | φ = | 9,71446 | x ΔT | 1,3310 |
| AFRNX2-060/72 | 2026 | 1027 | 1,3310 | 50 | 11,10149 | φ = | 11,10149 | x ΔT | 1,3310 |
| AFRNX2-060/81 | 2280 | 1155 | 1,3310 | 50 | 12,48851 | φ = | 12,48851 | x ΔT | 1,3310 |
| AFRNX2-060/90 | 2533 | 1283 | 1,3310 | 50 | 13,87553 | φ = | 13,87553 | x ΔT | 1,3310 |
| AFRNX2-100/13 | 691 | 347 | 1,3448 | 50 | 3,58490 | φ = | 3,58490 | x ΔT | 1,3448 |
| AFRNX2-100/18 | 920 | 462 | 1,3479 | 50 | 4,71562 | φ = | 4,71562 | x ΔT | 1,3479 |
| AFRNX2-100/23 | 1138 | 571 | 1,3509 | 50 | 5,76675 | φ = | 5,76675 | x ΔT | 1,3509 |
| AFRNX2-100/26 | 1265 | 634 | 1,3528 | 50 | 6,36330 | φ = | 6,36330 | x ΔT | 1,3528 |
| AFRNX2-100/28 | 1348 | 675 | 1,3540 | 50 | 6,75120 | φ = | 6,75120 | x ΔT | 1,3540 |
| AFRNX2-100/32 | 1512 | 756 | 1,3564 | 50 | 7,50127 | φ = | 7,50127 | x ΔT | 1,3564 |
| AFRNX2-100/37 | 1713 | 855 | 1,3595 | 50 | 8,39485 | φ = | 8,39485 | x ΔT | 1,3595 |
| AFRNX2-100/45 | 1981 | 987 | 1,3644 | 50 | 9,52254 | φ = | 9,52254 | x ΔT | 1,3644 |
| AFRNX2-100/54 | 2377 | 1184 | 1,3644 | 50 | 11,42985 | φ = | 11,42985 | x ΔT | 1,3644 |
| AFRNX2-100/63 | 2773 | 1381 | 1,3644 | 50 | 13,33249 | φ = | 13,33249 | x ΔT | 1,3644 |
| AFRNX2-100/72 | 3170 | 1579 | 1,3644 | 50 | 15,23979 | φ = | 15,23979 | x ΔT | 1,3644 |
| AFRNX2-100/81 | 3566 | 1776 | 1,3644 | 50 | 17,14244 | φ = | 17,14244 | x ΔT | 1,3644 |
| AFRNX2-100/90 | 3962 | 1974 | 1,3644 | 50 | 19,04974 | φ = | 19,04974 | x ΔT | 1,3644 |
| AFRNX2-120/13 | 809 | 409 | 1,3366 | 50 | 4,33605 | φ = | 4,33605 | x ΔT | 1,3366 |
| AFRNX2-120/18 | 1076 | 542 | 1,3416 | 50 | 5,65412 | φ = | 5,65412 | x ΔT | 1,3416 |
| AFRNX2-120/23 | 1331 | 669 | 1,3465 | 50 | 6,86219 | φ = | 6,86219 | x ΔT | 1,3465 |
| AFRNX2-120/26 | 1480 | 743 | 1,3495 | 50 | 7,54338 | φ = | 7,54338 | x ΔT | 1,3495 |
| AFRNX2-120/28 | 1578 | 791 | 1,3515 | 50 | 7,97997 | φ = | 7,97997 | x ΔT | 1,3515 |
| AFRNX2-120/32 | 1770 | 886 | 1,3554 | 50 | 8,81558 | φ = | 8,81558 | x ΔT | 1,3554 |
| AFRNX2-120/37 | 2006 | 1001 | 1,3604 | 50 | 9,79588 | φ = | 9,79588 | x ΔT | 1,3604 |
| AFRNX2-120/45 | 2319 | 1153 | 1,3683 | 50 | 10,98122 | φ = | 10,98122 | x ΔT | 1,3683 |
| AFRNX2-120/54 | 2783 | 1383 | 1,3683 | 50 | 13,17655 | φ = | 13,17655 | x ΔT | 1,3683 |
| AFRNX2-120/63 | 3248 | 1614 | 1,3683 | 50 | 15,37647 | φ = | 15,37647 | x ΔT | 1,3683 |
| AFRNX2-120/72 | 3711 | 1845 | 1,3683 | 50 | 17,57179 | φ = | 17,57179 | x ΔT | 1,3683 |

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|---------------|------|------|--------|----|----------|----------|----------|--------------|--------|
| AFRNX2-120/81 | 4175 | 2075 | 1,3683 | 50 | 19,76712 | $\phi =$ | 19,76712 | x ΔT | 1,3683 |
| AFRNX2-120/90 | 4639 | 2306 | 1,3683 | 50 | 21,96244 | $\phi =$ | 21,96244 | x ΔT | 1,3683 |
| AFRNX2-160/13 | 1050 | 535 | 1,3203 | 50 | 5,99582 | $\phi =$ | 5,99582 | x ΔT | 1,3203 |
| AFRNX2-160/18 | 1402 | 711 | 1,3290 | 50 | 7,73942 | $\phi =$ | 7,73942 | x ΔT | 1,3290 |
| AFRNX2-160/23 | 1738 | 878 | 1,3377 | 50 | 9,27679 | $\phi =$ | 9,27679 | x ΔT | 1,3377 |
| AFRNX2-160/26 | 1935 | 975 | 1,3429 | 50 | 10,11970 | $\phi =$ | 10,11970 | x ΔT | 1,3429 |
| AFRNX2-160/28 | 2064 | 1038 | 1,3464 | 50 | 10,64756 | $\phi =$ | 10,64756 | x ΔT | 1,3464 |
| AFRNX2-160/32 | 2319 | 1162 | 1,3534 | 50 | 11,64033 | $\phi =$ | 11,64033 | x ΔT | 1,3534 |
| AFRNX2-160/37 | 2632 | 1312 | 1,3621 | 50 | 12,76599 | $\phi =$ | 12,76599 | x ΔT | 1,3621 |
| AFRNX2-160/45 | 3056 | 1513 | 1,3760 | 50 | 14,04227 | $\phi =$ | 14,04227 | x ΔT | 1,3760 |
| AFRNX2-160/54 | 3668 | 1816 | 1,3760 | 50 | 16,84984 | $\phi =$ | 16,84984 | x ΔT | 1,3760 |
| AFRNX2-160/63 | 4279 | 2119 | 1,3760 | 50 | 19,65740 | $\phi =$ | 19,65740 | x ΔT | 1,3760 |
| AFRNX2-160/72 | 4890 | 2421 | 1,3760 | 50 | 22,46496 | $\phi =$ | 22,46496 | x ΔT | 1,3760 |
| AFRNX2-160/81 | 5501 | 2724 | 1,3760 | 50 | 25,27253 | $\phi =$ | 25,27253 | x ΔT | 1,3760 |
| AFRNX2-160/90 | 6113 | 3027 | 1,3760 | 50 | 28,08455 | $\phi =$ | 28,08455 | x ΔT | 1,3760 |
| AFRNX2-180/13 | 1141 | 584 | 1,3114 | 50 | 6,74761 | $\phi =$ | 6,74761 | x ΔT | 1,3114 |
| AFRNX2-180/18 | 1524 | 776 | 1,3206 | 50 | 8,69537 | $\phi =$ | 8,69537 | x ΔT | 1,3206 |
| AFRNX2-180/23 | 1890 | 958 | 1,3298 | 50 | 10,40089 | $\phi =$ | 10,40089 | x ΔT | 1,3298 |
| AFRNX2-180/26 | 2104 | 1064 | 1,3353 | 50 | 11,33435 | $\phi =$ | 11,33435 | x ΔT | 1,3353 |
| AFRNX2-180/28 | 2245 | 1133 | 1,3390 | 50 | 11,91830 | $\phi =$ | 11,91830 | x ΔT | 1,3390 |
| AFRNX2-180/32 | 2521 | 1267 | 1,3464 | 50 | 13,00423 | $\phi =$ | 13,00423 | x ΔT | 1,3464 |
| AFRNX2-180/37 | 2861 | 1431 | 1,3556 | 50 | 14,23386 | $\phi =$ | 14,23386 | x ΔT | 1,3556 |
| AFRNX2-180/45 | 3322 | 1650 | 1,3703 | 50 | 15,60751 | $\phi =$ | 15,60751 | x ΔT | 1,3703 |
| AFRNX2-180/54 | 3987 | 1980 | 1,3703 | 50 | 18,72902 | $\phi =$ | 18,72902 | x ΔT | 1,3703 |
| AFRNX2-180/63 | 4651 | 2310 | 1,3703 | 50 | 21,85052 | $\phi =$ | 21,85052 | x ΔT | 1,3703 |
| AFRNX2-180/72 | 5316 | 2640 | 1,3703 | 50 | 24,97202 | $\phi =$ | 24,97202 | x ΔT | 1,3703 |
| AFRNX2-180/81 | 5980 | 2970 | 1,3703 | 50 | 28,09352 | $\phi =$ | 28,09352 | x ΔT | 1,3703 |
| AFRNX2-180/90 | 6645 | 3300 | 1,3703 | 50 | 31,21503 | $\phi =$ | 31,21503 | x ΔT | 1,3703 |
| AFRNX2-200/13 | 1219 | 627 | 1,3025 | 50 | 7,46790 | $\phi =$ | 7,46790 | x ΔT | 1,3025 |
| AFRNX2-200/18 | 1628 | 833 | 1,3122 | 50 | 9,59788 | $\phi =$ | 9,59788 | x ΔT | 1,3122 |
| AFRNX2-200/26 | 2248 | 1141 | 1,3277 | 50 | 12,47851 | $\phi =$ | 12,47851 | x ΔT | 1,3277 |
| AFRNX2-200/32 | 2695 | 1360 | 1,3393 | 50 | 14,29136 | $\phi =$ | 14,29136 | x ΔT | 1,3393 |
| AFRNX2-200/37 | 3056 | 1534 | 1,3490 | 50 | 15,60665 | $\phi =$ | 15,60665 | x ΔT | 1,3490 |
| AFRNX2-200/45 | 3549 | 1768 | 1,3645 | 50 | 17,05649 | $\phi =$ | 17,05649 | x ΔT | 1,3645 |
| AFRNX2-200/54 | 4259 | 2121 | 1,3645 | 50 | 20,46872 | $\phi =$ | 20,46872 | x ΔT | 1,3645 |
| AFRNX2-200/63 | 4969 | 2475 | 1,3645 | 50 | 23,88095 | $\phi =$ | 23,88095 | x ΔT | 1,3645 |
| AFRNX2-200/72 | 5679 | 2829 | 1,3645 | 50 | 27,29318 | $\phi =$ | 27,29318 | x ΔT | 1,3645 |
| AFRNX2-200/81 | 6389 | 3182 | 1,3645 | 50 | 30,70540 | $\phi =$ | 30,70540 | x ΔT | 1,3645 |
| AFRNX2-200/90 | 7099 | 3536 | 1,3645 | 50 | 34,11763 | $\phi =$ | 34,11763 | x ΔT | 1,3645 |

W imieniu producenta podpisać:

(Signed for and on behalf of the manufacturer by:)

Członek Zarządu

Bartosz Ścierzyński

Nowa Wieś

23.11.2023

Bartosz Ścierzyński
Bartosz Ścierzyński
 Członek Zarządu

(podpis)

(signature)

INSTAL PROJEKT sp. z o.o.

(dawniej INSTAL-PROJEKT Gawłowscy, Ścierzyński Sp. J.)

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