



Intelligent Engine Cooling



# *MONZATECH*

*INTELLIGENT ENGINE COOLING*



# BANCATA MOTORE IN USO A 24 VOLT



Intelligent Engine Cooling

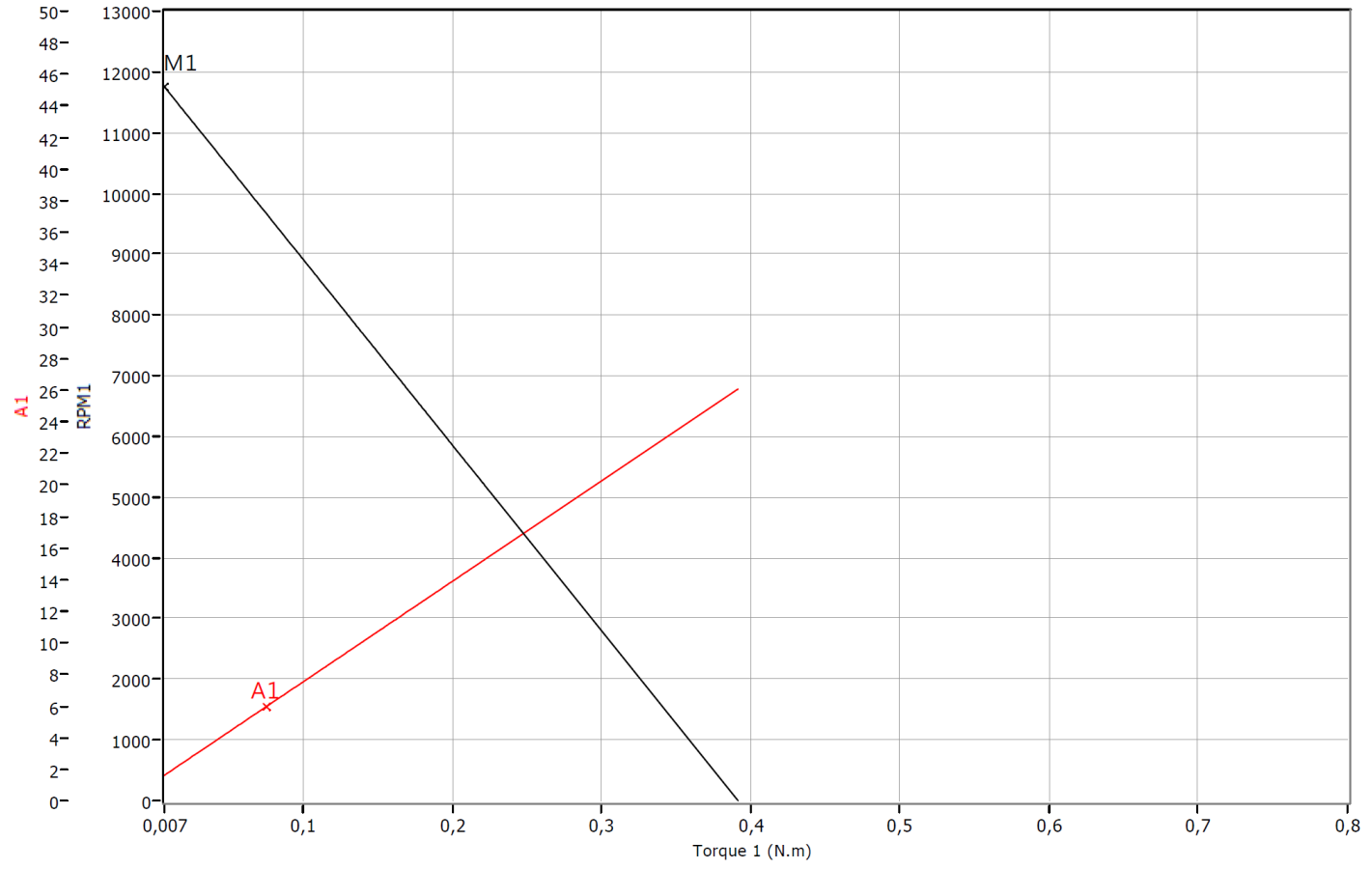
| Time  | Speed 1 (RPM) | Torque 1 (N.m) | Watts OUT 1 | Watts IN 1 | Efficiency 1 | Volts 1 | Amps 1 |  |
|-------|---------------|----------------|-------------|------------|--------------|---------|--------|--|
| 0,000 | 11859,591     | 0,000          | 0,000       | 18,095     | 0,000        | 24,057  | 0,805  |  |
| 0,300 | 11512,000     | 0,012          | 14,466      | 41,927     | 34,507       | 24,087  | 1,765  |  |
| 0,416 | 11513,000     | 0,012          | 14,468      | 41,906     | 34,526       | 24,087  | 1,765  |  |
| 0,534 | 11513,000     | 0,012          | 14,468      | 41,710     | 34,686       | 24,087  | 1,757  |  |
| 0,662 | 11513,000     | 0,012          | 14,468      | 41,823     | 34,594       | 24,087  | 1,761  |  |
| 0,790 | 11516,000     | 0,012          | 14,471      | 41,788     | 34,634       | 24,087  | 1,760  |  |
| 0,914 | 11515,000     | 0,012          | 14,470      | 41,779     | 34,639       | 24,087  | 1,760  |  |
| 1,037 | 11514,000     | 0,012          | 14,469      | 41,733     | 34,672       | 24,087  | 1,758  |  |
| 1,160 | 11513,000     | 0,012          | 14,468      | 41,695     | 34,699       | 24,087  | 1,756  |  |
| 1,327 | 11498,000     | 0,012          | 14,449      | 41,934     | 34,456       | 24,088  | 1,766  |  |
| 1,558 | 11387,000     | 0,014          | 16,694      | 46,080     | 36,212       | 24,093  | 1,936  |  |
| 1,886 | 10965,000     | 0,028          | 32,470      | 65,156     | 49,813       | 24,119  | 2,725  |  |
| 2,214 | 10363,000     | 0,049          | 53,175      | 95,070     | 55,598       | 24,160  | 3,961  |  |
| 2,562 | 9668,000      | 0,073          | 73,579      | 132,257    | 55,125       | 24,209  | 5,495  |  |
| 2,858 | 9061,000      | 0,094          | 88,870      | 164,661    | 53,526       | 24,250  | 6,826  |  |
| 3,171 | 8439,000      | 0,117          | 102,955     | 201,083    | 50,819       | 24,298  | 8,317  |  |
| 3,405 | 7981,000      | 0,133          | 111,009     | 228,191    | 48,339       | 24,336  | 9,422  |  |
| 3,548 | 7701,000      | 0,143          | 115,322     | 245,144    | 46,764       | 24,356  | 10,113 |  |
| 3,682 | 7452,000      | 0,152          | 118,318     | 260,574    | 45,158       | 24,376  | 10,739 |  |
| 3,822 | 7199,000      | 0,160          | 120,706     | 275,509    | 43,587       | 24,396  | 11,345 |  |
| 3,951 | 6970,000      | 0,168          | 122,705     | 289,594    | 42,176       | 24,414  | 11,917 |  |
| 4,123 | 6679,000      | 0,177          | 124,148     | 306,778    | 40,307       | 24,436  | 12,613 |  |
| 4,261 | 6465,000      | 0,184          | 124,674     | 319,253    | 38,916       | 24,454  | 13,119 |  |
| 4,399 | 6257,000      | 0,191          | 125,149     | 332,612    | 37,515       | 24,471  | 13,659 |  |
| 4,534 | 6065,000      | 0,197          | 125,153     | 344,569    | 36,231       | 24,485  | 14,144 |  |
| 4,668 | 5893,000      | 0,203          | 124,966     | 355,247    | 35,106       | 24,497  | 14,576 |  |
| 4,807 | 5724,000      | 0,208          | 124,566     | 365,312    | 34,042       | 24,513  | 14,984 |  |
| 4,951 | 5567,000      | 0,213          | 123,882     | 374,817    | 33,009       | 24,525  | 15,364 |  |
| 5,085 | 5437,000      | 0,217          | 123,266     | 382,484    | 32,193       | 24,533  | 15,673 |  |
| 5,228 | 5319,000      | 0,220          | 122,541     | 389,323    | 31,448       | 24,544  | 15,947 |  |
| 5,373 | 5213,000      | 0,223          | 121,971     | 395,438    | 30,828       | 24,551  | 16,194 |  |
| 5,526 | 5122,000      | 0,226          | 121,221     | 401,824    | 30,158       | 24,559  | 16,451 |  |
| 5,679 | 5057,000      | 0,228          | 120,742     | 407,654    | 29,614       | 24,567  | 16,685 |  |
| 5,825 | 5014,000      | 0,229          | 120,240     | 410,064    | 29,320       | 24,571  | 16,781 |  |
| 0,000 | 0,000         | 0,402          | 0,000       | 685,055    | 0,000        | 24,932  | 28,047 |  |





# BANCATA MOTORE IN USO A 24 VOLT



Intelligent Engine Cooling



RPM1   
A1 



# TABELLA RILEVAZIONE DATI IN CONDIZIONI DI ESERCIZIO



Intelligent Engine Cooling

| volt | ampere | delta ampere/volt | rpm [g/min] | watt    | hz          | omega [rad/sec] | coppia [Nm] |
|------|--------|-------------------|-------------|---------|-------------|-----------------|-------------|
| 9    | 3,38   | 0,52              | 2290        | 30,42   | 38,16666667 | 239,6866667     | 0,126915695 |
| 9,5  | 3,65   |                   | 2420        | 34,675  | 40,33333333 | 253,2933333     | 0,136896615 |
| 10   | 3,9    | 0,47              | 2515        | 39      | 41,91666667 | 263,2366667     | 0,148155652 |
| 10,5 | 4,11   |                   | 2610        | 43,155  | 43,5        | 273,18          | 0,157972765 |
| 11   | 4,37   | 0,49              | 2700        | 48,07   | 45          | 282,6           | 0,17009908  |
| 11,5 | 4,64   |                   | 2790        | 53,36   | 46,5        | 292,02          | 0,18272721  |
| 12   | 4,86   | 0,49              | 2870        | 58,32   | 47,83333333 | 300,3933333     | 0,194145454 |
| 12,5 | 5,05   |                   | 2930        | 63,125  | 48,83333333 | 306,6733333     | 0,205837917 |
| 13   | 5,27   | 0,41              | 2990        | 68,51   | 49,83333333 | 312,9533333     | 0,218914428 |
| 13,5 | 5,43   |                   | 3050        | 73,305  | 50,83333333 | 319,2333333     | 0,229628276 |
| 14   | 5,6    | 0,33              | 3110        | 78,4    | 51,83333333 | 325,5133333     | 0,240850349 |
| 14,5 | 5,72   |                   | 3130        | 82,94   | 52,16666667 | 327,6066667     | 0,253169451 |
| 15   | 5,88   | 0,28              | 3180        | 88,2    | 53          | 332,84          | 0,264992188 |
| 15,5 | 6,1    |                   | 3235        | 94,55   | 53,91666667 | 338,5966667     | 0,279240788 |
| 16   | 6,23   | 0,35              | 3270        | 99,68   | 54,5        | 342,26          | 0,291240577 |
| 16,5 | 6,35   |                   | 3310        | 104,775 | 55,16666667 | 346,4466667     | 0,302427502 |
| 17   | 6,45   | 0,22              | 3340        | 109,65  | 55,66666667 | 349,5866667     | 0,313656127 |
| 17,5 | 6,6    |                   | 3360        | 115,5   | 56          | 351,68          | 0,328423567 |
| 18   | 6,74   | 0,29              | 3400        | 121,32  | 56,66666667 | 355,8666667     | 0,3409142   |

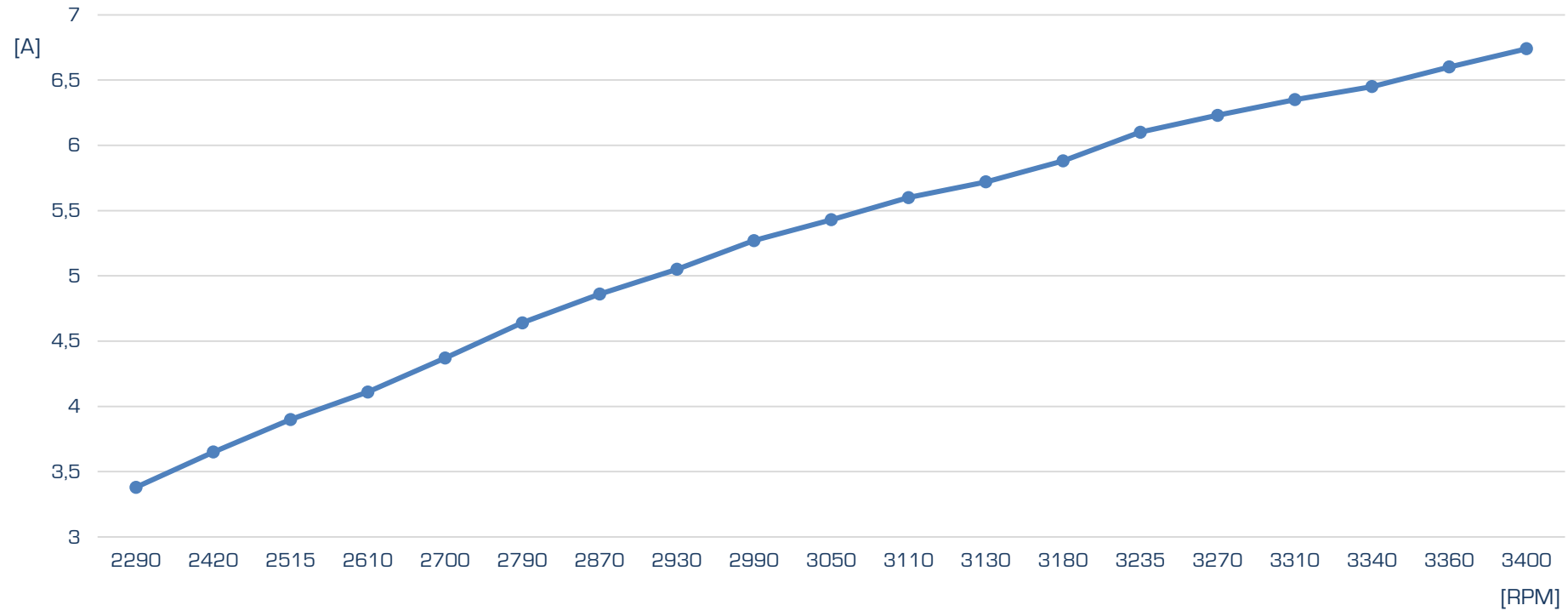
Dati ottenuti in vasca a 25 °C con pompa a bocca libera, rendimento massimo del motore 55%.

Le condizioni idrauliche restano in piena linearità fino ai 20 volt.



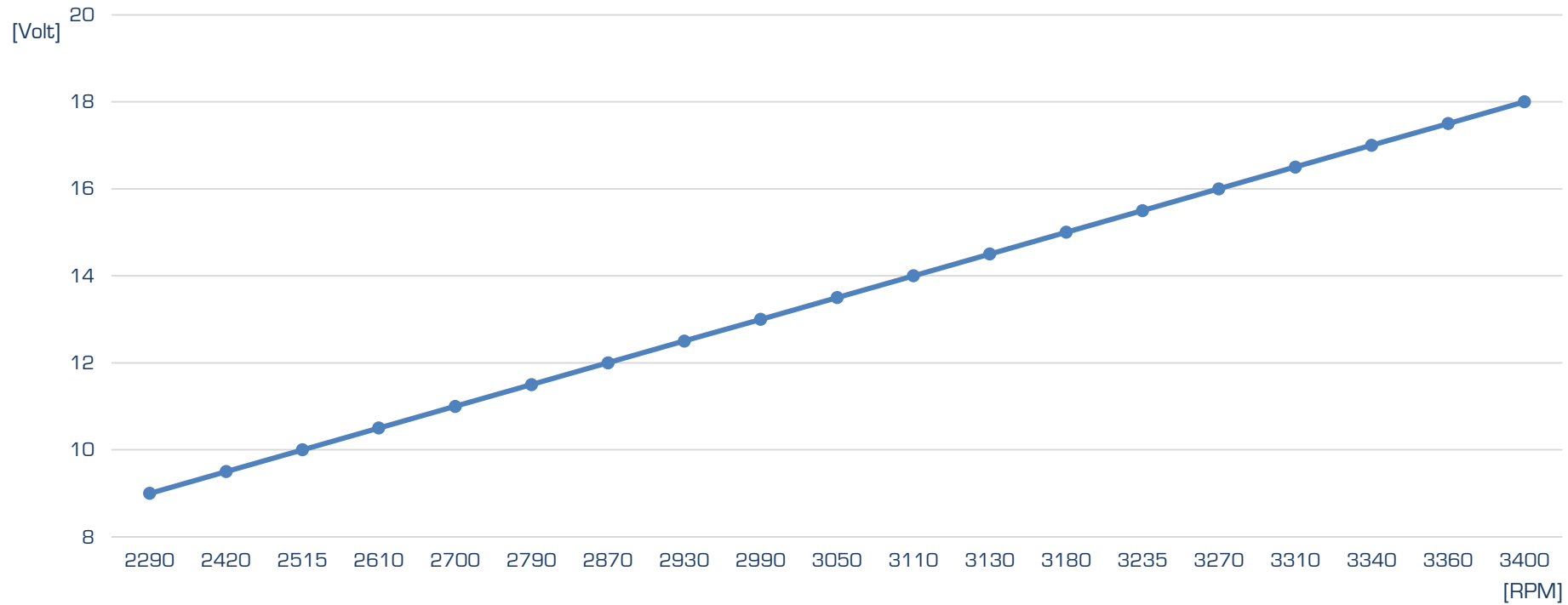


# *AMPÈRE vs RPM*



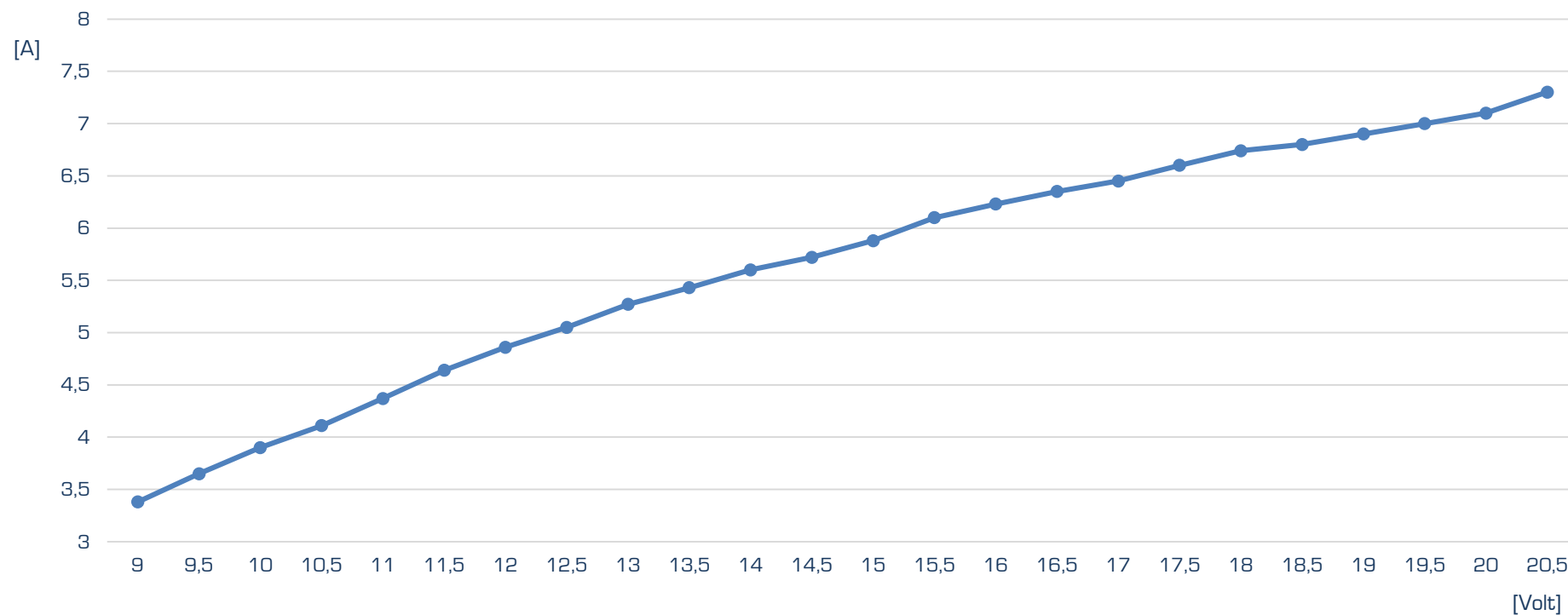


# *VOLT vs RPM*



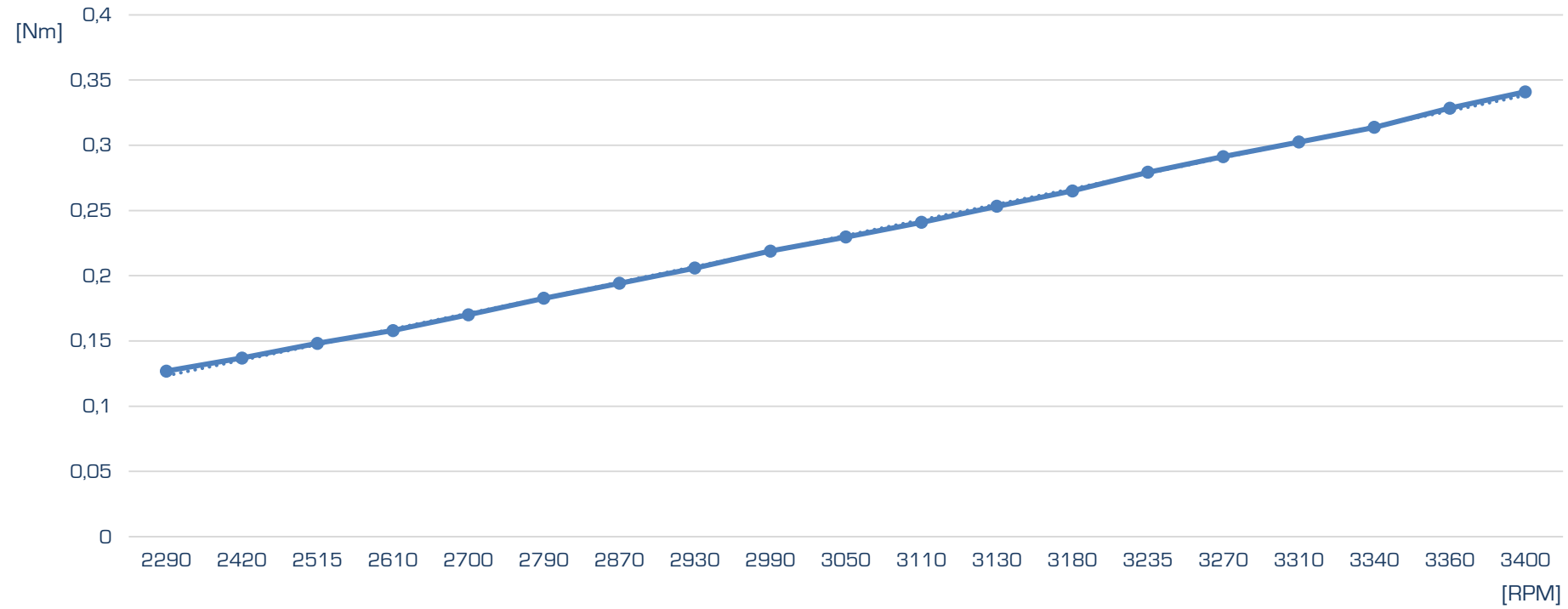


# *AMPÈRE vs VOLT*





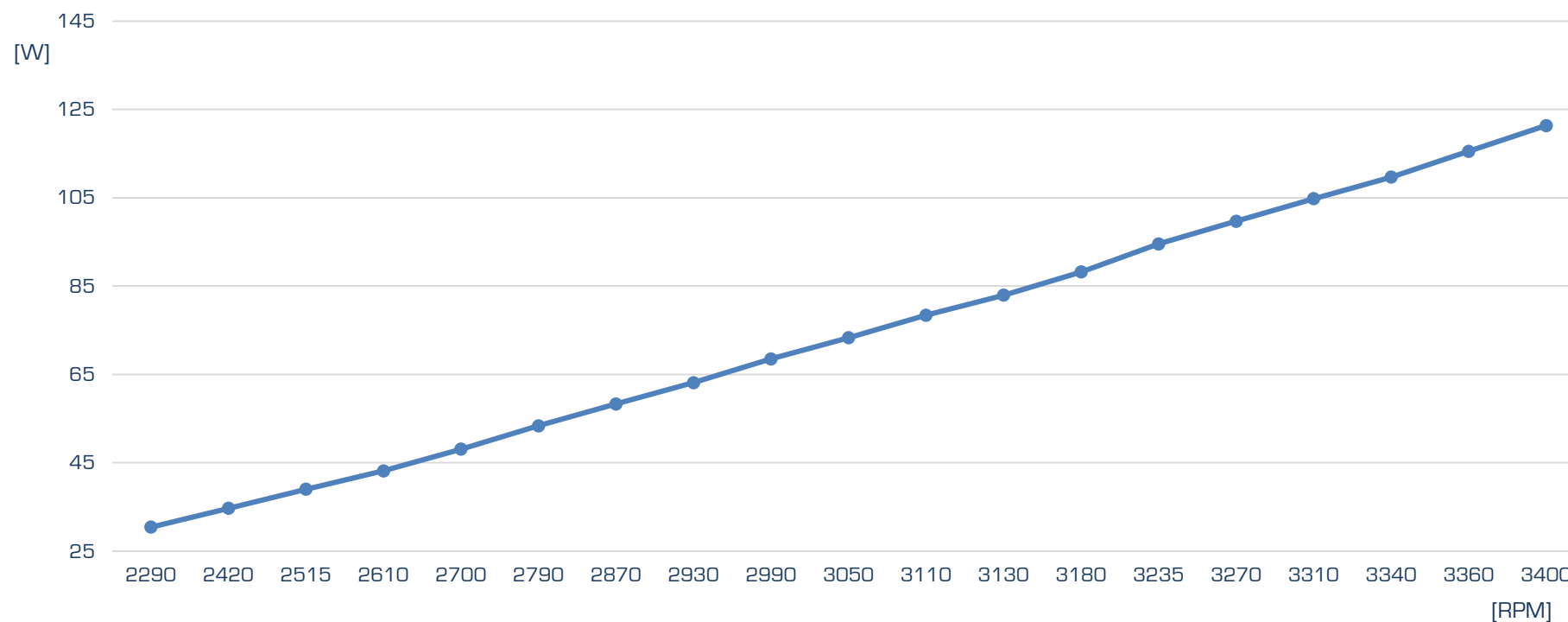
# *COPPIA vs RPM*







# *POTENZA ASSORBITA vs RPM*





Intelligent Engine Cooling



# *MONZATECH*

*THE NEW WAY OF COOLING*

